

»*1886.*«

CATALOGUE AND PRICE-LIST

OF

The Bonney Vise & Tool Co.,

(LIMITED,)

SUCCESSORS TO

C. S. BONNEY & SON,

Manufacturers of

BONNEY'S PATENT VISES,

MACHINISTS' TOOLS

AND

HARDWARE SPECIALTIES.



PROPRIETORS: { J. B. NEWKIRK,
C. W. RITCHIE,
I. R. NEWKIRK.



OFFICE AND WORKS,

3015 Chestnut Street, Philadelphia, Pa.,

U. S. A.

~~4~~TERMS.~~3~~

Our terms are **NET CASH, 30 DAYS.** Accounts not paid at maturity are subject to sight draft without notice.

All accounts must be paid in funds **FREE OF EXCHANGE TO US.**

Remittances by Express **MUST BE PREPAID.**

We take no risk upon goods after receiving shipping receipts, properly signed.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

On July 28th, 1885, I sold my interest in the BONNEY VISE AND TOOL Co. (Limited), to John B. Newkirk, who has been duly elected to fill my position in the above named firm. I solicit for them a continuance of the patronage of my friends.

Very respectfully,

C. S. BONNEY.

DISCOUNT SHEET.

BONNEY VISE & TOOL CO.

JANUARY, 1886.

Page.	Discount per cent.
3 to 5.....Bonney Vises, Nos. 1 to 9.....	.40
7....." " " 20.....	.25
8 to 10...." " " 25 to 45.....	.25
11.....Saw Vise, Nos. 1 to 3.....	.40
12.....Hand Vise, No. 110.....	.162½
13.....Stand and Vises.....	.40
14.....Washer Cutter, No. 1.....	.45
14....." " No. 2.....	.40
15.....Spoke Trimmer, No. 1.....	.45
15....." " No. 2.....	.45
15.....Bench Stop.....	.45
16.....Amateur Clamps.....	.40
16.....Bit Gauge.....	.40
17.....Task Hammer, No. 1.....	.40
17....." " No. 2.....	.40
17.....Nail ".....	.40
18.....Family Cleaver.....	.40
18.....Mincing Knife.....	.25
18.....Egg Poacher.....	.33½
19.....Nut Cracker.....	.33½
19.....Stove Lid Lifter.....	.40
19.....Always Ready Wrench.....	.25
20 to 21.....Excelsior Pad Locks.....	.33½
23.....Ice Tongs.....	.40
23.....Ice Pick.....	.33½
25.....Meat Saw.....	.33½
24.....Carriage Jack.....	.33½
25.....Scroll Saw.....	.40
25.....Potato Masher.....	.33½
25.....Can Opener.....	.33½
26.....Nail Sets, Round, Polished.....	.33½
26.....Oct. and Square, ".....	.33½
26.....Prick Punches, Oct., ".....	.40
26....." " Round, ".....	.33½
26.....Timers' Solid Punch, Oct.....	.40
26....." " Round.....	.33½
26.....Cold Chisels, Ass'd to ½ in.....	.25
26....." " Larger.....	.25
26.....Reamers.....	.40
26.....Screw Driver Bits, Plain.....	.33½
27.....Bonney Gate Ring.....	.40
27.....Handle Splitter.....	.40
28.....Heavy Steel Dog.....	.40
28.....Glass Tube Cutter.....	.25
29.....North Lathe Dog.....	.33½
29.....Vise Clamp.....	.33½
30.....North Tap Wrench.....	.33½
30.....Bonney Tool Holder.....	.25
31.....Helling's Centre Block.....	.25
32.....Lightning Brace.....	.162½
33 to 35.....Prices on application.	
36.....Acme Bicycle Wrench.....	.40
36.....Acme Standard Wrench.....	.55
37.....Glass Cutters.....	.33½
38.....Potato Parer.....	.162½
38.....Clothesline Hook.....	.162½

Page.	Discount per cent.
38.....Shear and Punch.....	.162½
39.....Prices on application.	
40.....Rivets in Papers.....	
41.....Flat Head Iron Screws.....	
41.....Round " " ".....	
41.....Flat Head Brass Screws.....	
41.....Round " " ".....	
42.....Iron Rivets in Bulk.....	
42.....Coopers' Rivets.....	
44.....Jail Locks, { 219, 211, 212.....	.60
{ 320, 330, 340.....	.60
44.....Jail Locks, { 225, 226, 227.....	.60
{ 225½, 226½, 227½.....	.60
44.....Jail Locks, 119, 129, 130, 140.....	.85
44....." " 9, 10, 11, 12, 13, 14.....	.60
44....." " 109 to 114.....	.60
44....." " 220, 230, 240.....	.60
45.....Wardrobe Bracket.....	.25
45.....Pocket Knife.....	.20
45.....Masticator.....	.25
45.....Match Box.....	.20
45.....Towel Holder.....	.25
46.....Miller Locks.....	.25
47....." Pad Locks.....	.33½
48.....Butchers' Steels.....	.33½
49.....Open Links.....	.33½
51.....Weed Faucets, Plain.....	.70
51....." " Boring.....	.20
51.....Ross Inside Catch.....	.65
52.....Bolt Clipper.....	.162½
53.....Corn Grater.....	.40
53.....N. P. Glass Cutters.....	.33½
54.....Braces, No. 500.....	.50
54.....Braces, No. 100.....	.45
54.....Saw Set.....	.40
55.....Adams' Countersinks.....	.20
56.....Cabinet Scrapers.....	.25
56.....Rabbit Plane.....	.25
57.....Leavett's Screw Driver.....	.25
57.....Ratchet " ".....	.33½
57.....Davis " ".....	.40
58.....Fray's Awls and Tool Sets.....	.25
59.....Baell's No. 2 Awls & Tool Sets.....	.25
60....." Screw Driver Sets.....	.25
61.....Bit Stock Drills.....	.40
61.....Blacksmith Drills.....	.33½
62.....Riffler Files and Rasps.....	.25
62.....Home Cleavers.....	.40
63.....Custer Scale Beams.....	.162½
64.....Eureka Screw Driver.....	.25
64.....Devore's Scratch Awl.....	.25
65.....Carriage Bolts.....	
67.....Machinists' Vise.....	.15
67.....Coachmakers' Vise.....	.15
67.....Jewelers' Vise.....	.25
68.....Washboard.....	.25

The Bonney Vise and Tool Co.

(LIMITED),

Successors to C. S. BONNEY & SON.

JANUARY, 1886.

In presenting our NEW CATALOGUE AND PRICE LIST to the **Hardware Trade**, we take the opportunity to express our thanks for the very liberal patronage bestowed upon us in the past.

The immense success of these goods is a sufficient recommendation. They are sold now not only all over the United States and the Canadas, but we are also shipping them to Mexico, South America, England, Ireland, France, Germany, Italy, Australia, and even to China and Japan.

We shall endeavor in the future, as in the past, to make our goods satisfactory to the public. Hoping for a continuance of the patronage of the Trade,

We are, very respectfully,

J. B. NEWKIRK,

C. W. RITCHIE,

I. R. NEWKIRK,

Proprietors.

PAINE, DIEHL & CO.,

MANUFACTURERS, IMPORTERS
and COMMISSION MERCHANTS,
16 Bank Street, Philadelphia, Pa.



BRYANT'S Patent EGG BEATERS.

Largest Beater for Price.

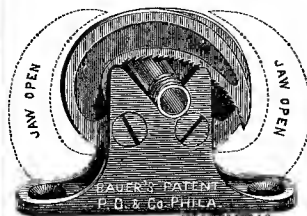
SIMPLE, PRACTICAL, NOVEL.

Sells fast at 20 to 25 cents each.

Price, \$2.00 per dozen and discount.

It is sweeping all other beaters behind it.

BAUER'S Patent Self-Adjusting, Self-Gripping and Self-Acting PIPE and BOLT VISE



NO. 1 holds $\frac{1}{8}$ to $1\frac{1}{2}$ in., \$3 00
2 holds $\frac{1}{8}$ to 3 in., 6 00

This Vise is made upon an entirely new principle, and is the handiest and best made. It works automatically, instantly and grips firmly. The harder you turn, either way, the tighter becomes the grip. It weighs about only one-fifth the weight of the ordinary Vise. No. 1 weighs only 3 pounds.

We guarantee these Vises to stand any test to which a Pipe Vise is subjected.

The Most Useful Tool Ever Invented

BAUER'S

Patent Self-Adjusting, Self-Gripping and Self-Acting

LINK WRENCH and PIPE TONGS

For Bolts, Nuts, Tubes, Pipes, &



The above cut shows tongs at work on $\frac{1}{2}$ in. Pipe Coupling.

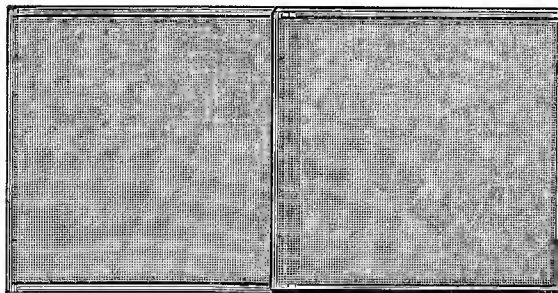


The above cut shows tongs at work on $\frac{1}{2}$ in. Hexagon Nut.

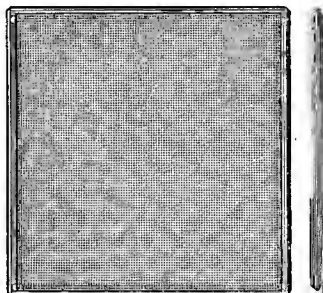
PRICES.—5 inch, 50 cents; 1 inch, \$1.00; 12 inch, \$1.50.

This Screen was adopted by the Government.

ROBERTS' PATENT ADJUSTABLE WINDOW SCREEN.



OPEN.



CLOSED.

END

All of the above are sold by the leading jobbers.

ONE OUT OF MANY.

From Charles M. Ghriskey, Hardware Commission Merchant, 508 Commerce Street, Philadelphia, March 11, 1885.

To PAINE, DIEHL & CO., Phila.

GENTS:—For the last two years past the increase in the sale of "Window Screens" has been a matter of surprise to me. I also anticipate a much larger demand for the article this coming season.

If in any Jobbing centre there is no one jobbing our Screens, and a retail dealer wants our Screens, we will deliver his order F. O. B. at the nearest jobbing centre, thus giving those far away the same advantage as those near by. Make no contracts until you have seen this Screen, and insist on having your jobber show you a sample.

Packed in crates of 2 dozen, ORDER EARLY.

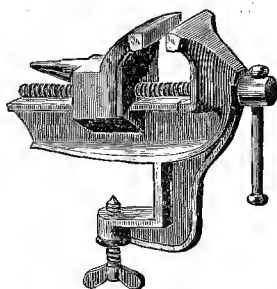
PRICES:

18x35, \$ 6 00 doz., \$0 50 each.	18x39, \$ 7 20 doz., \$0 60 each.	32x39, \$13 20 doz., \$1 10 each.
20x35, 6 60 " 55 "	20x39, 7 80 " 65 "	18x45, 9 00 " 75 "
24x35, 8 40 " 70 "	24x39, 9 60 " 80 "	20x45, 10 20 " 85 "
28x35, 9 60 " 80 "	28x39, 10 68 " 89 "	24x45, 12 00 " 1 00 "
30x35, 10 20 " 85 "	30x39, 12 00 " 1 00 "	28x45, 14 40 " 1 20 "
30x45, \$15 60 per doz., \$1 30 each.	32x45, \$16 80 per doz. \$1 40 each.	

FINISH.—Hard wood finished light in oil, or stained imitation Walnut.
(This stain is about perfect.)

THE ORIGINAL BONNEY'S *DOMESTIC* PARALLEL VISES,

With Clamp Attachment.

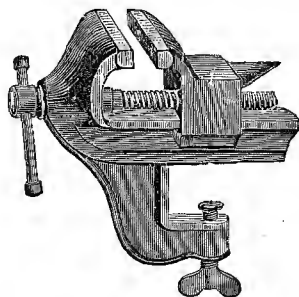


No. 1 Vise, very pretty design, with wrought-iron screw,—strong and durable.

No. 1, 1½ inch Jaws per dozen, \$3 50



No. 1½.
With Wrought Iron Screw,



Our New Pattern, No. 1½, is designed to take a place where a larger Vise than No. 1 is wanted. It is much larger and handsomer; is finer quality than No. 1—making it a much more desirable article.

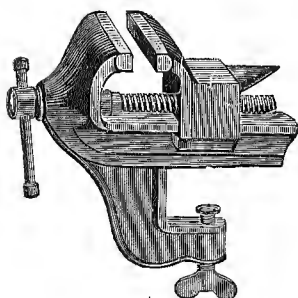
No. 1½, 1¾ inch Jaws, per dozen, \$4 25

Bonney's Vises.

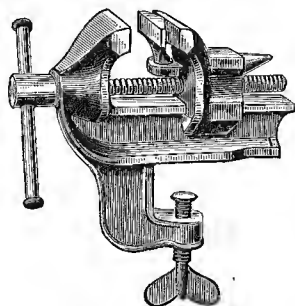
Nos. 2, 2½ and 3.

Wrought-Iron Screw.

No. 2 or 2½.



No. 3.



The No. 2 Vise is so well known that it needs no particular mention.

The No 2½, with Steel Jaws, is a comparatively new Vise, and of much better quality than No. 2—the Jaws being of Steel, either smooth or cut, and *Tempered*—making it a really first-class Vise.

The Patent Swivel, for holding taper pieces, when once used, is considered indispensable.

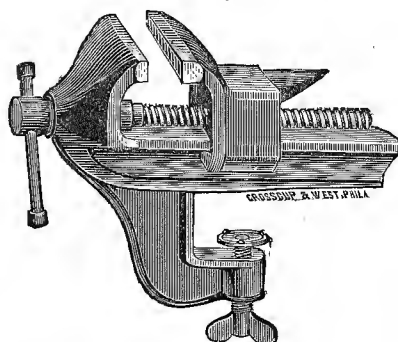
PRICE PER DOZEN.

No. 2, 2 inch Jaws	5 50
No. 2½, 2 inch Steel Jaws	10 00
No. 3, with Swivel Jaw attachment	\$12 00

Bonney's Vises.

Nos. 4 and 6.

With Heavy Wrought-Iron Screws.



They have been upon the market for about three years and have met with unusual favor. They are both of the same size and style, the difference being that No. 6 has Steel Jaws; weight, 5 pounds each.

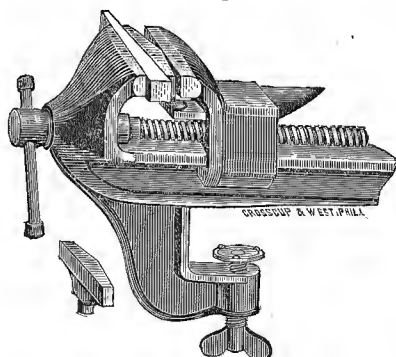
PRICE PER DOZEN.

No. 4, $2\frac{3}{4}$ inch Iron Jaws	\$15 00
No. 6, " Steel Jaws	18 00



Nos. 5 and 7.

With Heavy Wrought-Iron Screws.



They are both of the same size and style, the difference being that No. 7 has Steel Jaws; weight, 5 pounds each.

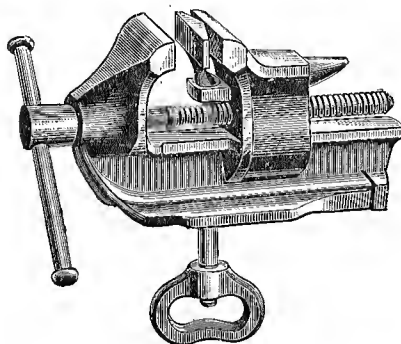
PRICE PER DOZEN.

No. 5, $2\frac{3}{4}$ inch Iron Jaws, with Swivel Attachment,	\$18 00
No. 7, " Steel " " " " "	21 00

BONNEY'S VISES.

Nos. 8 and 9.

With Heavy Wrought-Iron Screws,



This Vise has been a great favorite with the Trade since we commenced making it; same style as our Machinists' Vise.

Weight, 5 pounds each.

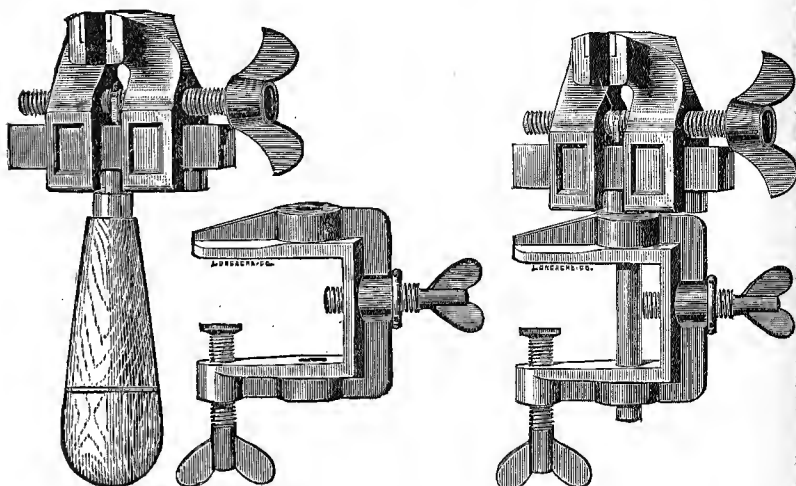
PRICE PER DOZEN.

No. 8, $2\frac{3}{4}$ inch Steel Jaws	\$18 00
No. 9, $2\frac{3}{4}$ inch Steel Jaws, with Swivel Jaw Attachment . . .	21 00

BONNEY'S

No. 20,

Swivel Bench and Hand Vise Combined.



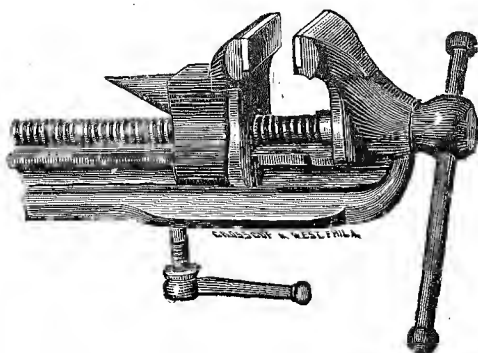
NICKEL-PLATED.

This Vise is really a first-class article, being nicely fitted in all its working parts, and is put on the market at a much lower price than any other of like quality, capacity or strength. The slide and screw are made of wrought-iron, the latter having a right and left hand thread, moving both jaws at the same time, bringing anything held therein on a line with the handle. By removing the clamp and attaching the handle that accompanies it, is at once converted into a hand vise. The clamp will be found very useful for many purposes. The vise can be swivelled or turned all the way around and held firmly at any point of the circle by means of the thumb screw A.

No. 20, 1½ inch Steel Jaws per dozen, \$16 00

BONNEY'S Machinist's or Farmer's Vise.

No. 25.

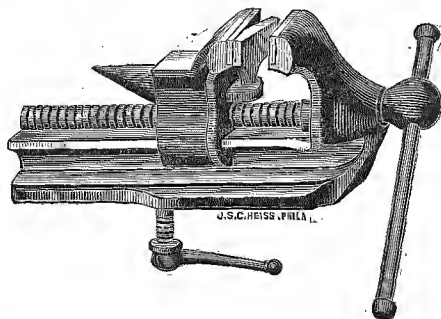


This is a very substantial and really good Vise, at an extremely low price. It is a Swivel Vise, has tempered Steel Jaws. The slides are planed and milled; weight, 13 pounds each.

PRICE PER DOZEN.

No. 25, 3 inch Jaw \$33 00

Machinist's or Farmer's Vise, No. 30.



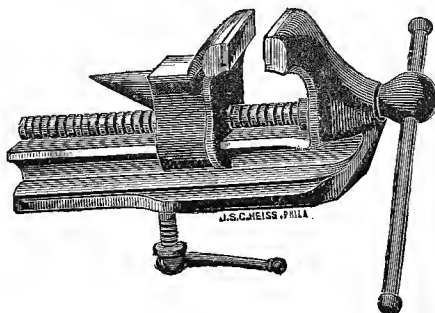
The same size and quality as No. 25, having in addition our patent Swivel Jaw Attachment (made of forged Steel and tempered). For holding taper pieces. Slides planed and milled; weight, 14 pounds each.

PRICE PER DOZEN.

No. 30, 3 inch Jaw, with Swivel Jaw Attachment \$42 00

BONNEY'S MACHINIST'S VISE.

No. 35.

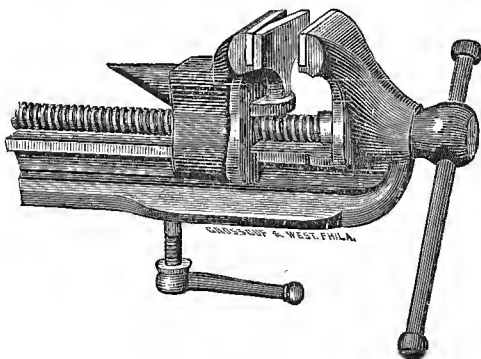


The best Vise for the money in America. Swivel Vise with Steel Jaws. *Opens eight inches.* The sides are planed and milled. Weight 24 pounds each.

PRICE PER DOZEN.

No. 35, 4 inch Jaws \$54 00

Machinist's Vise, No. 40.



The same size and quality as No. 35, having in addition our Patent Swivel Jaw attachment for holding taper pieces. *Opens eight inches.* Slides planed and milled. Weight, 25 pounds each.

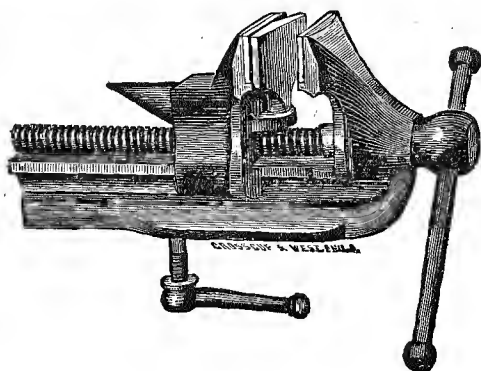
PRICE PER DOZEN.

No. 40, 4 inch Jaws, with Swivel-Jaw attachment \$66 00

BONNEY'S

COACHMAKER'S VISE.

No. 45.



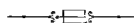
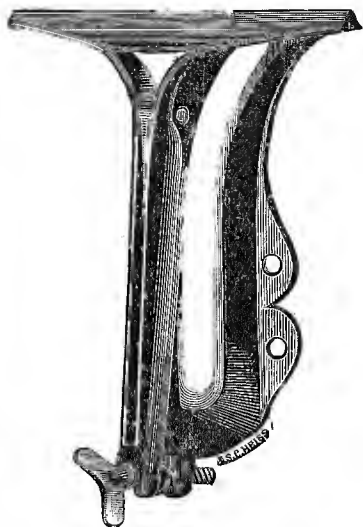
The large sale of this Vise in the past four years is sufficient evidence that it is what has long been wanted—a good Coachmaker's Vise at a moderate price. It is a strong Swivel Vise with Steel Jaws, and has the Patent Swivel Jaw attachment, so necessary in wood-working. *Opens eight inches.* The slides are planed and milled. Weight, 27 pounds each.

PRICE PER DOZEN.

No. 45, 4 inch Jaw \$69 00

Bonney's Patent Saw-Filer's Vise.

PRICES REDUCED.



No. 1.

To screw up in one position. The jaws are planed slightly concave, holding the saw equally at all points, thus preventing all trembling or screeching.

Price, per dozen \$12 00



NOISELESS.

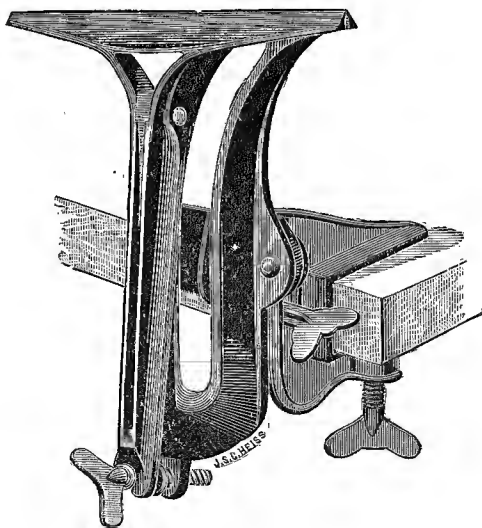
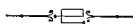
Bonney's Patent Saw-Filer's Vise.



No. 3.

To be attached to the bench with clamp and thumb screw. Can be tilted forward or backward. The Jaws are planed same as No. 1.

Price per dozen, \$15 00



NOISELESS.

BONNEY'S NEW HAND VISE.

No. 110.

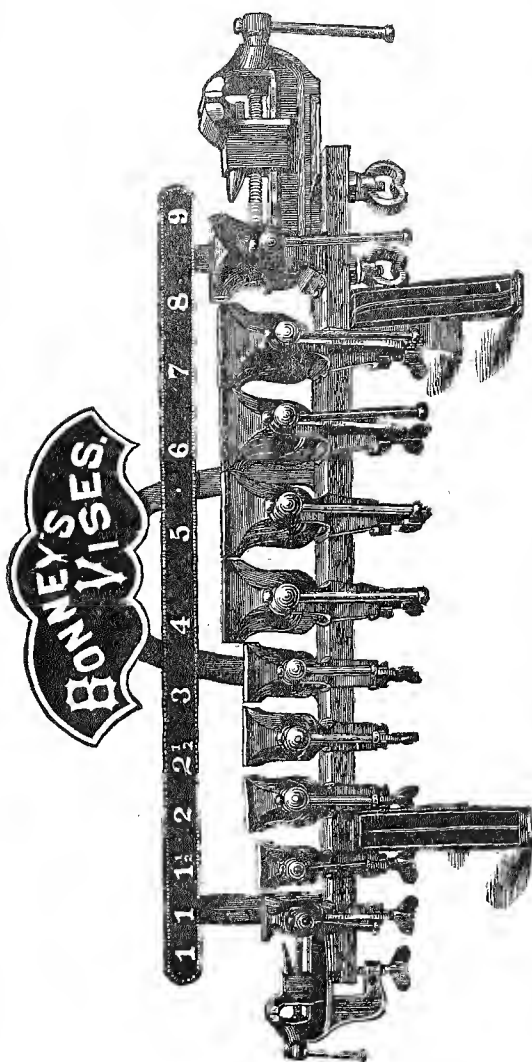
WITH WOODEN HANDLE.

WITH HANDLE TAKEN
OFF.

AS USED AS A BENCH VISE.

Above cut show our new Hand Vise, which possesses some very decided improvements over all others, among which is the cog arrangement at the lower end, by which both the Jaws are moved simultaneously, bringing anything held therein directly on a line with the handle, and the handle being hollow with also a hole through the bolt, a long rod or wire can be inserted. It is made of Forged Steel. All the parts are nicely fitted, and the Jaws are nicked and tempered.

PRICE, PER DOZEN \$21 00



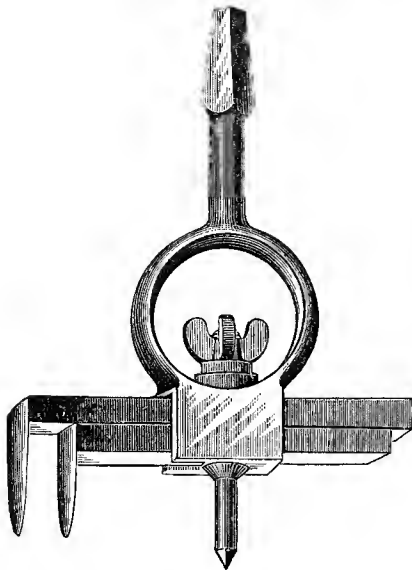
THIS CUT SHOWS 12 DIFFERENT SIZES AND STYLES OF OUR PARALLEL VISE, $1\frac{1}{2}$ to $2\frac{3}{4}$ inches in width of jaws, and in weight from $1\frac{1}{4}$ to 5 pounds. They are well made, strong and durable, and sold at about one-quarter the price that similar Vises were sold for before we commenced to make them.

No. $2\frac{1}{2}$, and Nos. 6, 7, 8 and 9 have TEMPERED STEEL JAWS. Nos. 3, 5, 7 and 9 have our PATENT SWIVEL JAW, by which all *Taper Pieces* can be held as firmly as *straight ones*.

FOR SCROLL SAWYERS, AMATEUR MECHANICS, JEWELERS, DENTISTS, PRINTERS, AND GENERAL FAMILY USE.

No.	
1.	.....
1.	.....
$1\frac{1}{2}$.	.....
2.	.....
$2\frac{1}{2}$.	.....
3.	.....
4.	.....
5.	.....
6.	.....
7.	.....
8.	.....
9.	.....

Width of Jaw.	Weight.	Price.
1 1/2 in.	1 1/4 lb.	\$ 29
1 3/4 in.	1 3/4 lb.	29
1 3/4 in.	1 3/4 lb.	36
2 in.	2 1/2 lb.	46
2 in.	2 1/2 lb.	85
2 in.	2 3/4 lb.	1 00
2 1/4 in.	5 lb.	1 25
2 1/2 in.	5 lb.	1 50
2 3/4 in.	5 lb.	1 50
2 3/4 in.	5 lb.	1 50
2 3/4 in.	5 lb.	1 75
2 3/4 in.	5 lb.	1 50
2 3/4 in.	5 lb.	1 75
2 3/4 in.	5 lb.	1 50



COOPER'S

PATENT WASHER CUTTER.

No. 1.

Made from Malleable Iron, with finely tempered cutters, forged from the best tool steel. It is very easily adjusted, and is in many respects the best in the market.

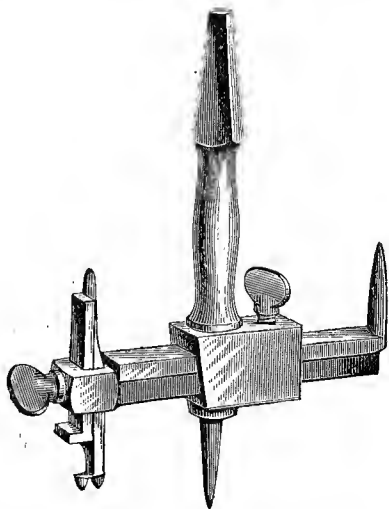
Cutters of any desired length made to order for cutting Cylinder Gaskets.

Price, per dozen, \$10.00.

COOPER'S PATENT EXTENSION BIT AND WASHER CUTTER COMBINATION TOOL.

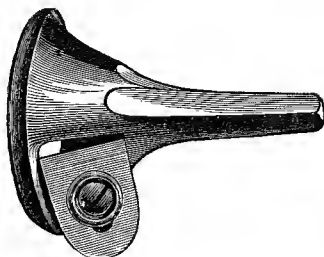
No. 2.

This tool is a valuable one for Carpenters, Pattern Makers, Engineers, Liverymen, Farmers, and all wood mechanics. As an Extension Bit, it will chip away or cut a hole from $\frac{1}{8}$ of an inch to 1 inch deep, and from $\frac{5}{8}$ of an inch to 6 inches in diameter. This tool, as an Extension Bit, will cut a larger diameter than any other tool of its kind in the market. It is made of the best material—the Bits are made of Tool Steel, and the Holder of Maleable Iron—and in the same tool, while you have an Extension Bit, you have the advantage of a Washer Cutter, which will cut a washer from $\frac{5}{8}$ of an inch to 5 inches in diameter.



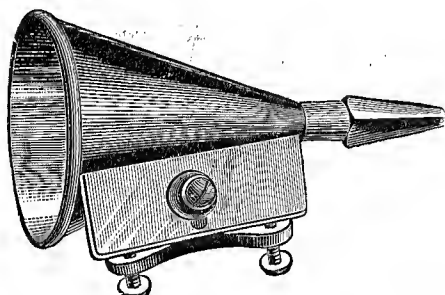
Price, per Dozen, \$20.00.

Bonney's Spoke Trimmers, No. 1.



Price per dozen, \$8 00

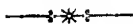
Bonney's Patent Spoke Trimmer, No. 2.



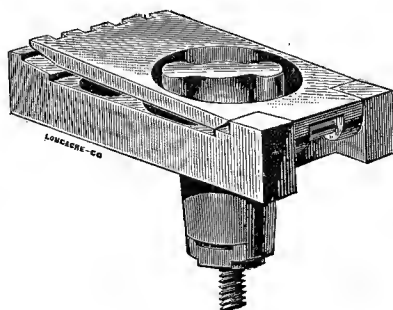
Has been upon the market for the past seven years, and has met with universal favor. It trims half inch larger spokes and tapers more than No. 1, and, having set screws for the knife, can be more easily and firmly adjusted. It is guaranteed to give satisfaction.

Price per dozen, \$10 00

Common Sense Bench Stop.

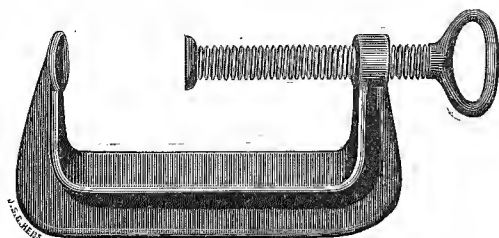


This article has been so long in the market that although a good one, needs no particular mention. Japanned and polished, packed one-third and one-half dozen in a box.



Price per dozen, \$9 00

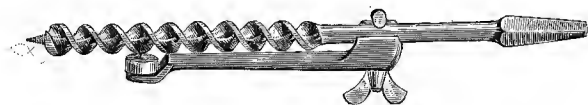
Amateur and Quilting Frame Clamps.



JAPANNED, PUT UP ONE DOZEN IN BOX.

		Price per Dozen.
No. 1,	Cast Iron, open, 2 inches	\$0 75
2,	" " 3 "	1 00
3,	Malleable Iron, open, 2 inches	1 40
4,	" " " 3 "	1 80

Garrett's Patent Auger Bit Gauge.

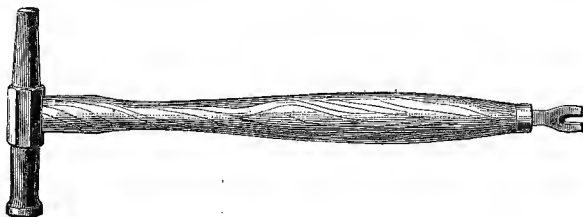


The above represents a convenient tool for all wood mechanics. By placing it on the bit, as shown in cut, you are enabled to bore any number of holes all the same depth, while the revolving wheel prevents marring the work.

Price, per Dozen, \$6.00.

TACK HAMMER.

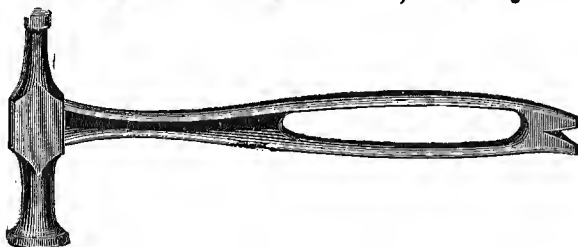
No. 1.



WOOD HANDLE.

Price per Gross \$12 00

Tack Hammer, No. 2.

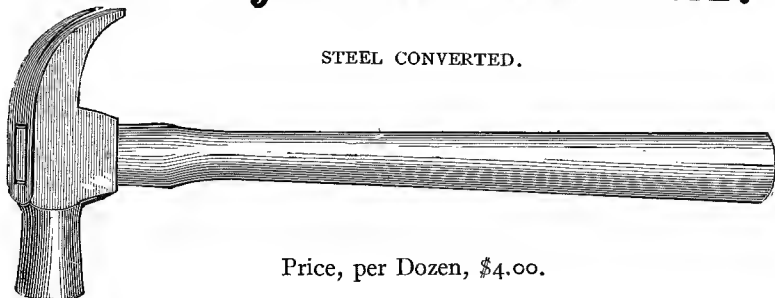


ALL IRON, COPPERED.

Price per Gross \$6 00

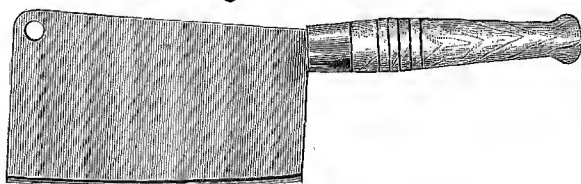
Adze Eye Nail Hammer.

STEEL CONVERTED.



Price, per Dozen, \$4.00.

Family Cleaver.



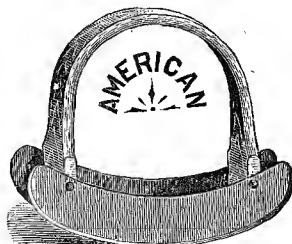
Made of best Crucible Steel, hardened and tempered.

Price per dozen \$7 50

The American Mincing Knife.

Patented February 17, 1879.

Height,
5½ inches.



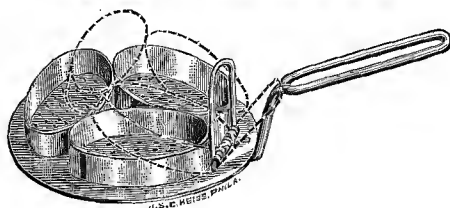
Length of Blade,
6 inches.

Spring steel blades and steam-bent maple handle. Is the best and decidedly the cheapest Mincing Knife in the market. It is very convenient for hanging up, as it is provided with an open bow handle. It is a useful article for cutting up meats or vegetables of any kind. They are made with 1, 2 and 3 blades each. One dozen in each box.

PRICE PER DOZEN.

1 Blade	\$1 00
2 Blades	1 75
3 Blades	2 50

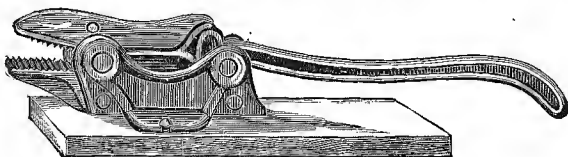
Egg Poacher.



Price per Dozen \$3 50

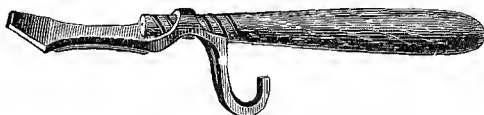
Alligator Nut-Cracker.

Compound Lever.



Price, per Dozen, \$3.50.

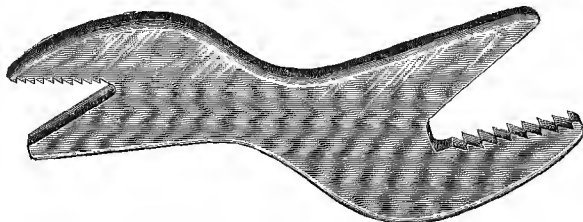
THE BONNEY Wood-Handle Stove-Lid Lifter.



Handle screws in. If it becomes loose from the heat, a slight turn will tighten it again, thus making it entirely safe.

Price, per Gross, \$6.00.

“Always Ready” Wrench.



CONVENIENT. DURABLE.

Manufactured from Prepared Steel, Forged and Nickel-Plated.

PRICE LIST.

No. 1.	Takes nut from $\frac{1}{4}$ to $\frac{3}{4}$ inch	Per dozen	\$ 5 00
No. 2.	Takes nut from $\frac{1}{4}$ to $1\frac{1}{4}$ inch	“	6 75
No. $2\frac{1}{2}$.	Takes nut from $\frac{1}{4}$ to $1\frac{3}{4}$ inch	“	10 50
No. 3.	Takes nut from $\frac{3}{4}$ to 2 inch	“	16 00
No. 4.	Fitting all nuts on a Bicycle	“	4 00

EXCELSIOR PADLOCKS.



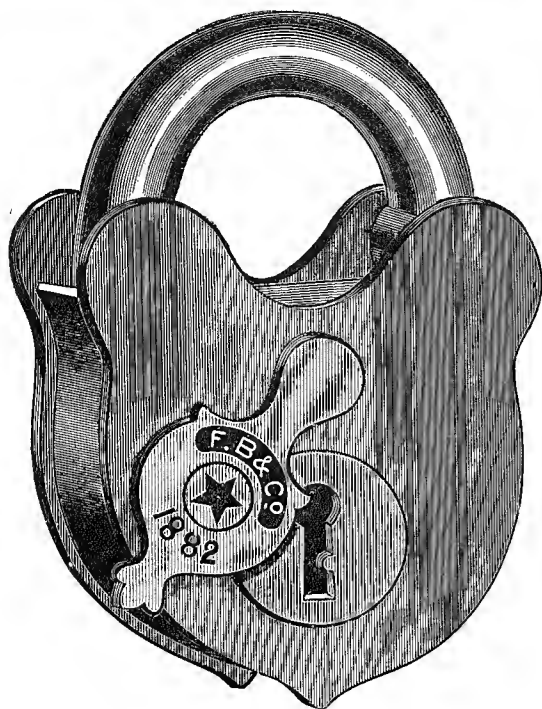
Three Changes in each box of one-half dozen Locks.

No.						Price per dozen.
401	Black Finish (Spring Lock),	.	.	.	.	\$2 00
501	Galvanized " "	.	.	.	.	2 75

WROUGHT IRON.

No.						Price per dozen.
525	Black Finish (Bar Lock),	.	.	.	.	\$3 00
601	Galvanized " "	.	.	.	.	3 75

EXCELSIOR PADLOCKS.

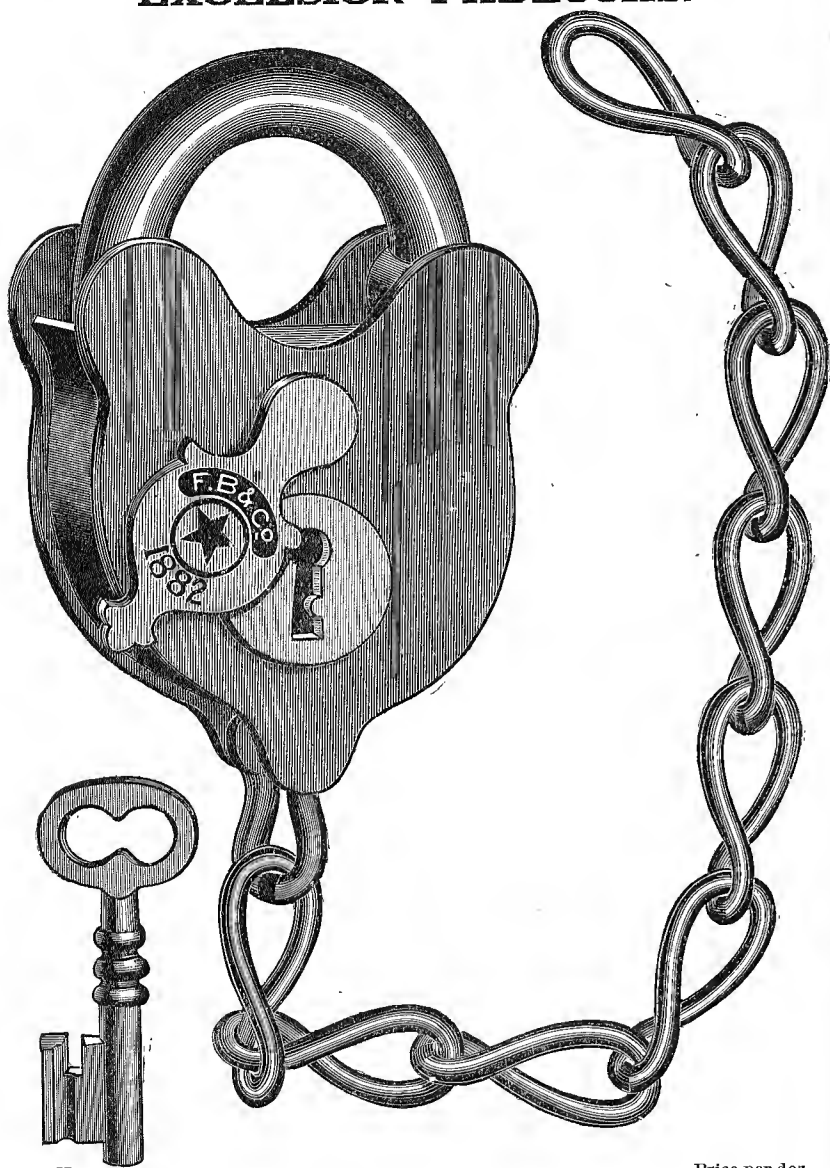


Three Changes in each box of one-half dozen Locks.

No.						Price per dozen
402	Black Finish (Spring Lock,)	.	.	.	.	\$2 50
502	Galvanized " "	.	.	.	.	3 50

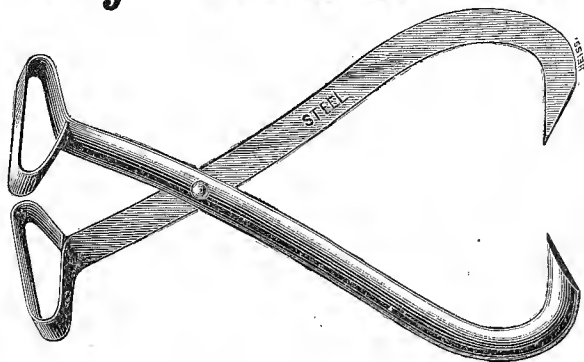
WROUGHT IRON.

No.						Price per dozen
550	Black Finish (Bar Lock),	.	.	.	.	\$3 75
602	Galvanized " "	.	.	.	.	4 25

EXCELSIOR PADLOCKS.

No.		Price per doz..
403.	Black Finish (spring lock)	\$3 00
503.	Galvanized " "	4 25
WROUGHT IRON.		
575.	Black Finish (bar lock)	4 50
603.	Galvanized " "	5 00

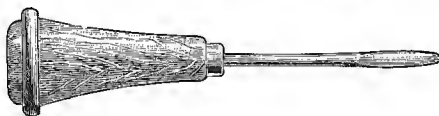
Bonney's Steel Ice Tongs.



These Tongs are made expressly for family use, are strong and light, are 14 inches in length, and have a spread of 13 inches when open, are made of $\frac{5}{8}$ galvanized half oval steel.

Price, per doz., \$4 50

BONNEY'S STEEL ICE PICK.



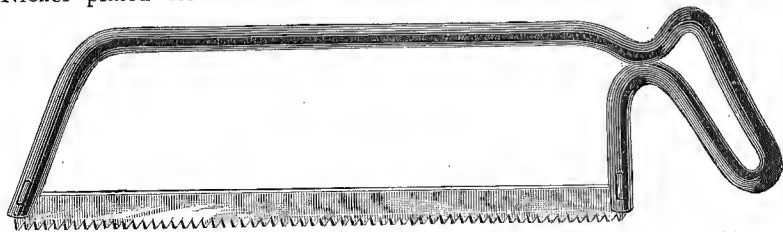
The blade is made of best tool steel, tempered points, and the most approved shape, being oval. The band is made of round wrought iron, a shape that is more effectual for breaking Ice than any other in the market.

Price, per gross, \$21 00

FAMILY MEAT SAW.

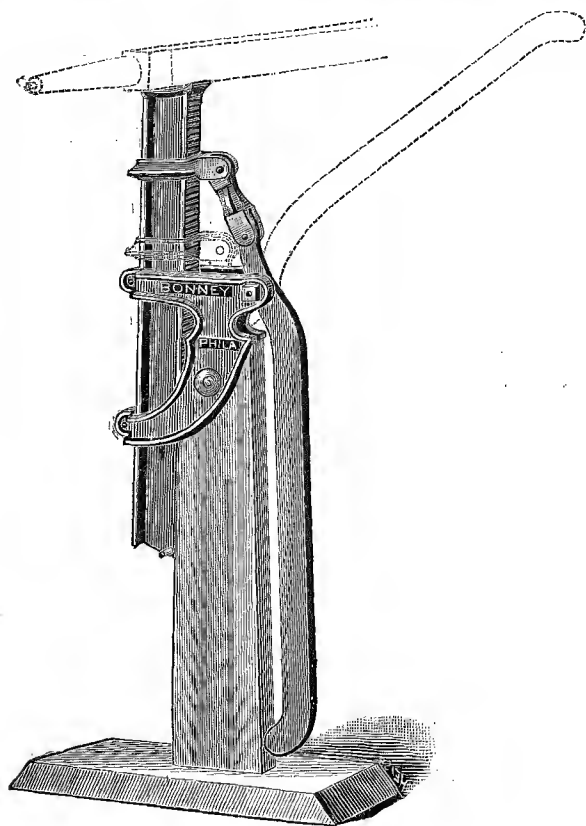
Nickel plated steel frame.

Best quality steel blade.



Price, per doz., \$6 00

EUREKA CARRIAGE JACK.



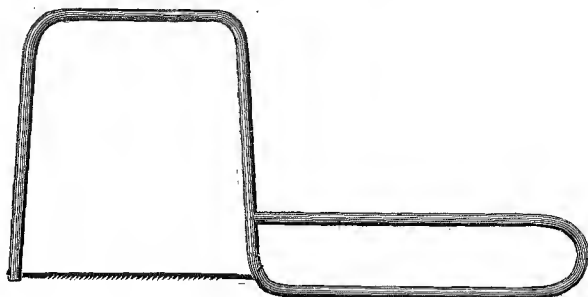
Compact, Strong, Self-Locking.
Malleable and Wrought Iron Working Parts.

DIRECTIONS:

To lower the Jack, raise the lever as far as it will go (as shown by dotted lines in cut) when a slight pressure causes the lifting bar to go to its lowest position. ♡

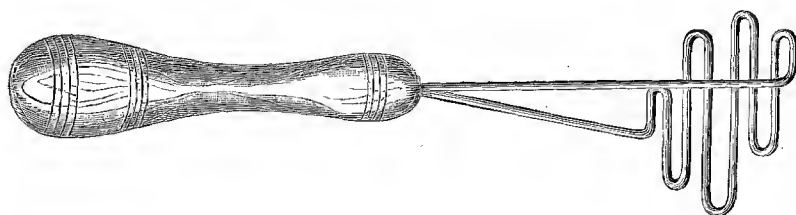
Price per dozen, \$15 00

AMATEUR SCROLL SAWS.



Price per gross, \$12 00

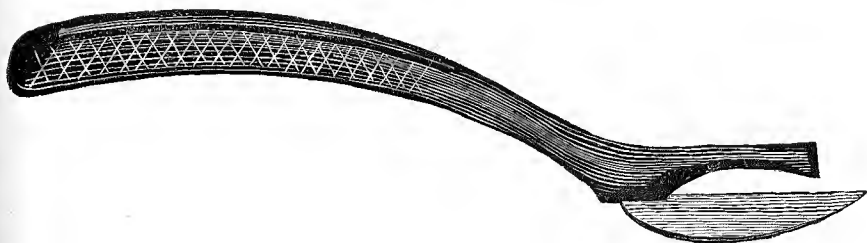
BONNEY'S WIRE POTATO MASHER.



No.		Price per gross
211.	Steel Wire	\$ 8 00
210.	" "	12 00

NATIONAL CAN OPENER.

(BEST IN THE MARKET.)



Price per gross, \$12 00

NAIL SETS.

BEST CAST STEEL.



Round, Steel, Polished,	per gross, \$9
Octagon, " " "	" 12



Square, Steel, Extra, all Polished,	per gross, \$12 00
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TINNERS' PRICK PUNCHES.



Octagon, Polished,	per gross, \$18 00
Round, " " "	" 9 00

TINNERS' SOLID PUNCHES.



Octagon Polished,	.	.	.	.	.	per gross, \$18 00
Round, " " "	.	.	.	.	.	" 9 00

COLD CHISELS.



Octagon, Cast Steel Cold Chisels, Assorted to 1/2 in., 1 doz. in box,	.	.	.	.	.	per gross, \$24 00
Octagon, Cast Steel Cold Chisels, Assorted, larger than 1/2 in. to 1 in.,	per lb., 50

CAST STEEL REAMERS.



Square,	per dozen, \$2 00
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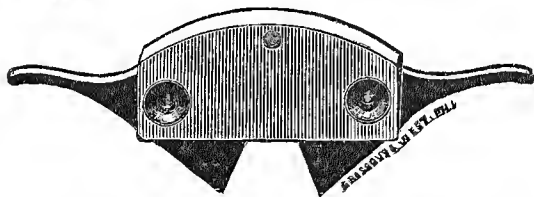
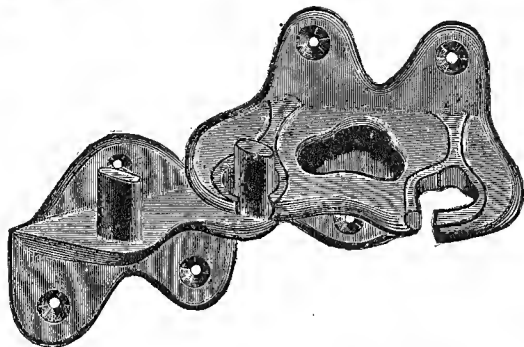
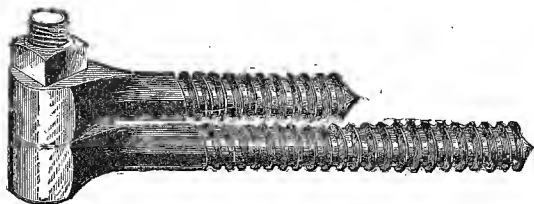
Octagon,	per dozen, \$2 50
Half Round,	" 2 50

CAST STEEL SCREW DRIVER BITS.



Plain,	per dozen, \$1 50
With Slot,	.	.	.	.	.	" 1 50

Bonney's Patent Gate Hinge, No. o.



SWINGS BOTH WAYS, with Patent Automatic Latch—*always sure to Latch*. Wrought-iron upper hinge; lower hinge so constructed that it cannot be unhinged in opening or closing. Has given general satisfaction for the past four years.

No. o, per Dozen \$8 00



BONNEY'S Whitewash Brush Handle-Splicer

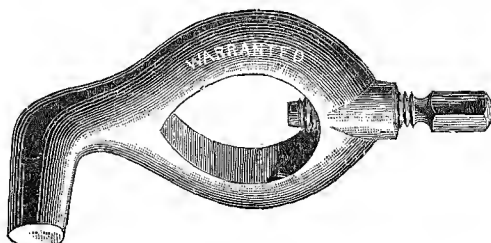
The Best in the Market.

Made of Malleable Iron, very strong and durable.

Price, per Dozen, \$3.00.

HEAVY STEEL DOG.

WITH HARDENED STEEL SCREW.



This Dog is very heavy, and is warranted not to break with any work

PRICES:

No. 1....	$\frac{3}{8}$ inch.....	\$ 50
" 2.....	$\frac{1}{2}$ "	60
" 3.....	$\frac{5}{8}$ "	70
" 4.....	$\frac{3}{4}$ "	70
" 5.....	$\frac{7}{8}$ "	80
" 6.....	1 "	80
" 7.....	$1\frac{1}{8}$ "	95
" 8.....	$1\frac{1}{4}$ "	95
" 9.....	$1\frac{3}{8}$ "	1 10
" 10.....	$1\frac{1}{2}$ "	1 10
" 11.....	$1\frac{3}{4}$ "	1 25
" 12.....	2 "	1 40
" 13.....	$2\frac{1}{4}$ "	1 60
" 14.....	$2\frac{1}{2}$ "	1 60
" 15.....	3 "	1 0
" 16.....	$3\frac{1}{2}$ "	2 00
" 17.....	4 "	2 30
" 18.....	$4\frac{1}{2}$ "	3 00
" 19.....	5 "	3 50
Full Set, 19 Dogs.....		26 65

No. 1.....	$\frac{3}{8}$ inch.....	\$ 50
" 2.....	$\frac{1}{2}$ "	60
" 4.....	$\frac{3}{4}$ "	70
" 6.....	1 "	80
" 8.....	$1\frac{1}{4}$ "	95
" 10.....	$1\frac{3}{8}$ "	1 10
" 11.....	$1\frac{3}{4}$ "	1 25
" 12.....	2 "	1 40

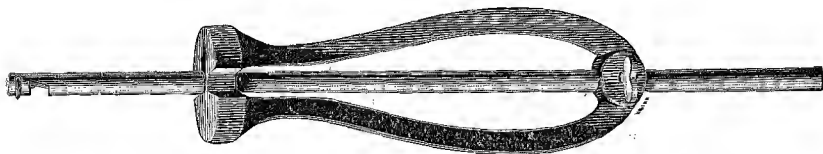
Small set of 8 Dogs, from $\frac{3}{8}$ to 2 inches,
\$7 50

No. 14.....	$2\frac{1}{2}$ "	\$ 1 60
" 15.....	3 "	1 80
" 16.....	$3\frac{1}{2}$ "	2 00
" 17.....	4 "	2 30

Set of 12 from $\frac{3}{8}$ to 4 inches, \$15 00.

No. 20.....	$5\frac{1}{2}$ inch.....	\$ 4 25
" 21.....	6 "	5 00

PATENT GLASS TUBE CUTTER.



For cutting water glasses for steam boilers to any desired length. The only successful Tube Cutter ever made.

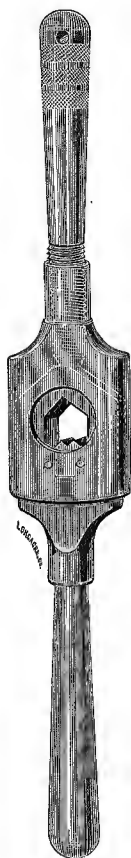
It will cut a glass tube as easily as a diamond will cut a light of glass and will leave the end *straight* and *square*, a result not always attained by any of the old methods.

DIRECTIONS:

Place the Cutter *inside* glass and revolve the tube with the left hand against the Cutter and the thumb of the right hand, being careful not to press hard against the gauge. *Break while the Cutter is still in the groove.*

Price per dozen, \$4 00

North's Patent Adjustable Tap Wrench



To meet the wants of Machinists, the Wrench here illustrated was perfected, and, in offering it to the trade, we are warranted in saying its superior has never before been in the market. For simplicity, durability and strength, it has no equal. It is made of cast steel entire, with the exception of the centre piece, which is forged steel, hardened and neatly fitted to the case, and another important feature it cannot get out of order. The Wrench is turned, fitted and finished in all its parts.

No.	In.	Price each.
0	will take from 0 to $\frac{3}{8}$ Tap,	\$2 25
1	" " $\frac{3}{16}$ to $\frac{1}{2}$ "	2 50
2	" " $\frac{1}{4}$ to $\frac{5}{8}$ "	3 00
3	" " $\frac{3}{8}$ to 1 "	3 50
4	" " $\frac{1}{2}$ to $1\frac{1}{4}$ "	5 00
5	" " $\frac{3}{4}$ to $1\frac{3}{4}$ "	7 50

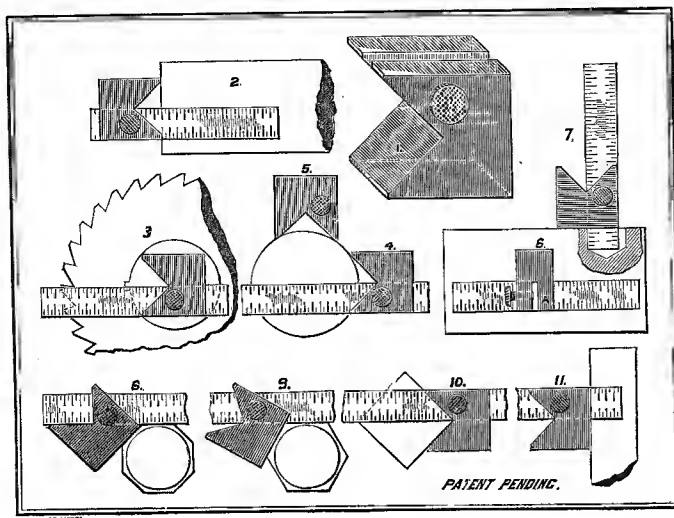
BONNEY'S TOOL HOLDER.



Made of Malleable Iron, with Tempered Steel Screw. Will hold anything up to three-eighths of an inch. Well made, durable and cheap. Put up in half-dozen boxes.

Price, per Dozen \$12 00

HELLING'S PATENT CENTRE BLOCKS.



What every mechanic should have is one of these handy little Centre Blocks. Can be applied to any scale or straight-edge; can be carried in the vest pocket, it being only 1 inch square by $\frac{5}{8}$ inch thick. The above illustration shows a few of the many advantages derived from its use.

No. 1 shows the Tool without scale.

No. 2 shows how it is used to lay out for a Keyseat at the end of a shaft.

No. 3 shows how it is used to lay out a Keyway opposite a certain tooth, which advantage cannot be had in any other tool, except in a large hole.

No. 4 shows it used in finding the centre of a round piece.

No. 5 is an end view of No. 6, which shows how it is used in laying out a Keyseat a distance from the end of the shaft.

No. 7 shows how it is used in ascertaining the depth of a hole or groove.

No. 8 shows it set for an OCTAGON or MITRE GAUGE.

No. 9 shows it set for a HEXAGON, a mark being made (as shown at A in No. 6) to set the scale to, the blade or scale can be set at any angle, making it a bevel capable of trying in places impossible by any other tool.

No. 10 shows it finding the centre of a square.

No. 11 shows it as a Scribe Gauge.

In fact it is one of the handy little helps which every mechanic should have, as the cost is so trifling compared with the usefulness of the tool.

PRICE PER DOZEN.

Centre Blocks with Scriber	\$9 00
Three-inch Scale	4 80
Centre Block, three-inch Scale and Scriber in box with circular explaining its use	13 80

LIGHTNING BRACE.

A. H. REID,

Philadelphia, Pa.

This Brace is specially designed for Light Boring and Screw-Driving. It is very quick in its work, and as the power is applied on the top it may be used with great force.

It may be used either automatically, running the bit both back and forward, or to turn the bit one way only, as is necessary to drive a screw or bore a hole with an auger bit.

This is done by means of the divided head, which acts as a fast and loose pulley, there being no ratchet about it to get out of order. It is made strong and durable.

The metal part is finely polished and nickle-plated. The trimmings are of lignumvitæ and rose-wood. We make but one size and style.

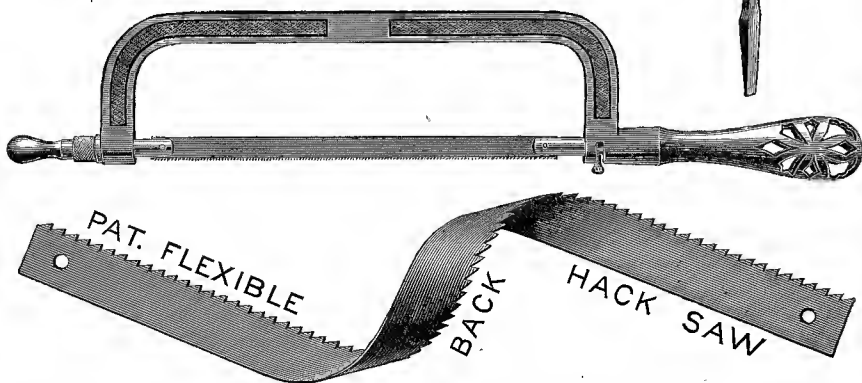
Price each, \$2 50



PATENT

FLEXIBLE BACK HACK SAW.

For Machinists' Use.



Made of best band Steel. The teeth only are hardened by an entirely new process, the back remaining soft and flexible. Warranted not to break. Send for sample and circular. Endorsed by The Pratt & Whitney Co., John Henney, Jr., Supt. Motive Power, N. Y., N. H. & H. R. R. and others.

HENRY C. THOMPSON & SONS,
New Haven, Conn. | 51 Leonard Street, New York.

Price of Frames, each,	75 cents.			
Length of Blades,.....	6 in.	7 in.	8 in.	9 in.
	55c.	60c.	65c.	70c.

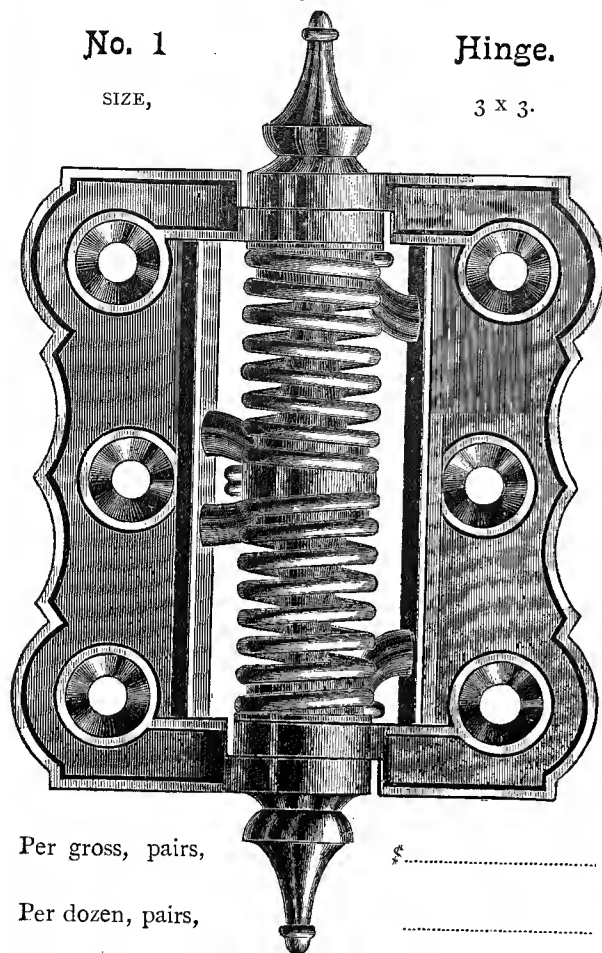
THE DEVORE SPRING HINGE.

No. 1

SIZE,

Hinge.

3 x 3.



Per gross, pairs,

\$.....

Per dozen, pairs,

.....

Has uniform tension; holds the door firmly when closed, and when the door opens 130 degrees the action of the spring reverses and holds it open.

This Hinge makes but a quarter turn on the coil in opening the door to its fullest extent, admitting of the application of one-half more tension at the closing point. It requires no adjustment, the requisite tension being ap-

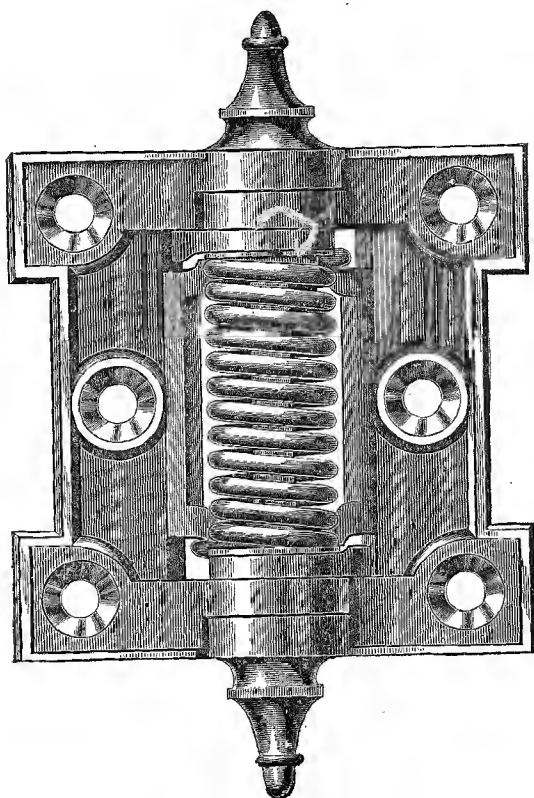
plied at the factory. The coil contains one-third more wire than is used in other hinges, allowing the application of stronger tension, without danger of setting the wire. The leaves of the hinge are always in line, hence easily attached to door and jamb.

All the desirable features of a Spring Hinge in a combination so simple that it cannot get out of order, and which we are enabled to offer to the trade at a satisfactory price. This Spring Hinge has been on the market for three years, and has given universal satisfaction.

MANUFACTURED BY THE
FREEPORT HARDWARE MAN'FG CO., Freeport, Ill.

THE DEVORE SPRING HINGE.

No. 2.

Size, $2\frac{3}{4} \times 2\frac{3}{4}$

Per gross pairs,

\$ _____

Per dozen pairs,

\$ _____

FOR SCREEN DOORS ONLY.

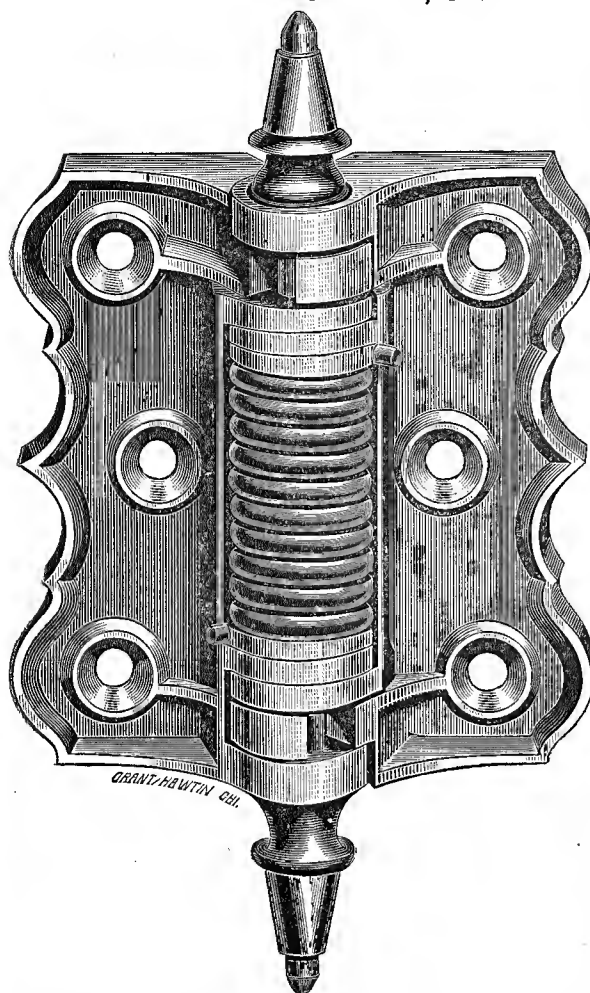
Has uniform tension ; holds door firmly when closed, and open at any point beyond 130 degrees. Is very simple in construction, and contains all the advantages of No. 1.

In making our Hinges, our aim has not been to make it cheaper than others, but to overcome the defects existing in other styles, and make a Hinge that is practical and durable. We have avoided all defects of other Hinges, and have added new features, as set forth in the description of our Hinges, which cost more to manufacture, and embody many advantages. When taking into consideration their respective merits, any expert jobber or dealer can but decide that we have the *best and cheapest* Hinges in the market.

FREEPORT HARDWARE MANUFACTURING CO.,
FREEPORT, ILL.

Wiles' Spring Hinge, with Fast Pins.

No. 2. Size, 3 x 3.



In presenting the Devore & Wiles' Hinges, we wish to call your attention to what has always been the weak point in SPRING HINGES, viz.: They have been so constructed that when applied to practical use the tension on the spring is very light when the door is closed, and increases through the entire swing of the door in opening, causing such a strong tension that it results in weakening the spring, and ultimately will not close the door tightly. The increased tension also causes the door to recoil with great force when released, and results in violent slamming.

The general practice in constructing spring hinges so that the tension can be applied after attaching them to doors, by those using them, we claim has always been an objectionable and weak feature,

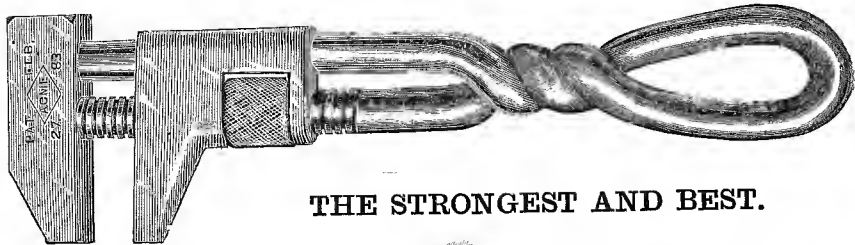
as a great majority of people using them are not mechanics, hence do not know how much tension the spring will bear, and are liable, and usually do, apply too much, causing the spring to weaken, and it soon becomes inoperative.

The use of too small a quantity of wire in the coil has also been the cause of the short life of many old style hinges.

Per Gross, pairs \$..... Per Dozen, pairs, \$.....

MANUFACTURED BY THE
FREEPORT HARDWARE M'FG CO., Freeport, Ill.

THE ACME WRENCH.



THE STRONGEST AND BEST.

REASONS WHY THE ACME IS THE BEST.

- 1st. Being made of only four pieces of steel, where other wrenches are composed of from seven to nine pieces, the wearing qualities are obvious.
- 2d. It has no handle to get loose or soak with oil.
- 3d. Having two slides makes it very much stronger.
- 4th. The thread in the nut is about twice as long as in the ordinary wrench, consequently there will never be the amount of play in the fields, or stripping of thread.
- 5th. All Wrenches are warranted.
- 6th. They are all steel, and the jaws are hardened.

PRICE LIST:

4½ INCH POCKET OR BICYCLE WRENCH.

Nickeled, per dozen, \$9 60 | Polished, per dozen, \$8 00
 Each Wrench of this size is put up in a paper box.

Discount on above.....

Notice that our list is the same for BRIGHT WRENCHES that others charge for Black.

BRIGHT STANDARD WRENCH.

	Per doz.		Per doz.
6-inch	\$ 9 00	15-inch	\$24 00
8-inch	10 00	18-inch	30 00
10-inch	12 00	21-inch	36 00
12-inch	14 00		

Discount on above.....

Our Nickeled Wrench is but a trifle higher than the list of other makers' Bright Wrenches.

NICKEL STANDARD WRENCH.

	Per doz.		Per doz.
6-inch	\$10 80	15-inch	28 80
8-inch	12 60	18-inch	36 00
10-inch	15 00	21-inch	57 00
12-inch	18 00		

Discount on above.....

Cases Contain as Follows :

8-inch.	10-inch.	12-inch.	15-inch.	18-inch.	21-inch.
6 Doz.	6 Doz.	6 Doz.	3 Doz.	2 Doz.	1 Doz.

4½ inch Pocket or Bicycle, 12 Dozen.

THOMAS J. ANDRESS,
GLASS CUTTERS AND NOVELTIES,
821 CHERRY STREET, Philadelphia, Pa.

No. 1.  Per Gross, \$10 00

No. 2.  Per Gross, \$10 50

No. 3.  Per Gross, \$9 50

No. 4.  Per Gross, \$9 00

No. 5.  Per Gross, \$12 00

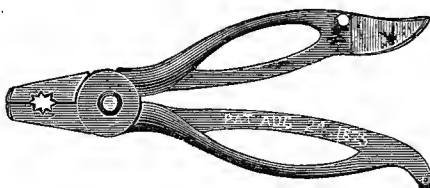
No. 6.  Per Gross, \$8 50

No. 8.  Per Gross, \$12 00

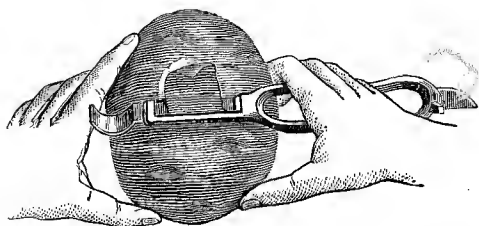
No. 9.  Per Gross, \$14 00

No. 14.  Per Gross, \$22 00

Nos. 9 and 14 are Nickel-Plated. No 6 is Japanned.

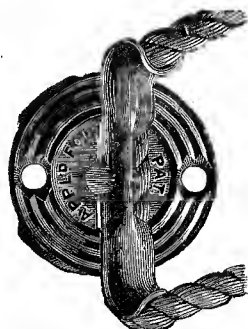
No. 10.  Per Gross, \$17 00

THOMAS J. ANDRESS,
 MANUFACTURER OF
GLASS CUTTERS AND NOVELTIES,
 821 Cherry Street, Philadelphia, Pa.,
 U. S. A.

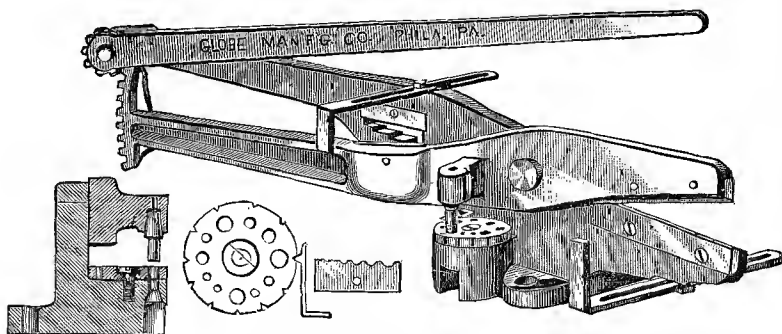


Combined Potato and Apple Parer, Slicer,
 Corer and Can Opener.

No. 16, per 100, \$7.00.



No. 15, Clothes Line Hook.
 Per Gross, \$12.50.



COMBINED SHEAR PUNCH AND BAR IRON CUTTER.

BEST AND MOST USEFUL COMBINATION EVER MADE.

This tool will be ready for delivery early in 1886. For Metal Workers, Blacksmiths, Farmers, Machinists, Tanners, &c. Made of best steel and malleable iron.

GLOBE MANUFACTURING CO.,

Manufacturers of PAT. HDW. SPECIALTIES,

Office, 926 Walnut Street, Philadelphia, Pa.

GLOBE MANUFACTURING CO., PHILADELPHIA, PA.

SCISSORS SHARPENER

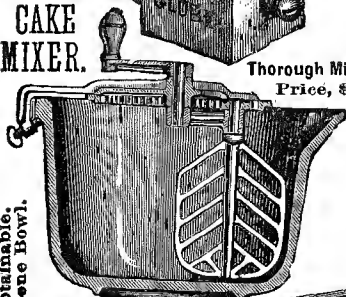
BEST EVER MADE.

PRICE. { No. 1, 20c.
No. 2, 25c.



CAKE MIXER.

Thorough Mixer
Price, \$1.75.

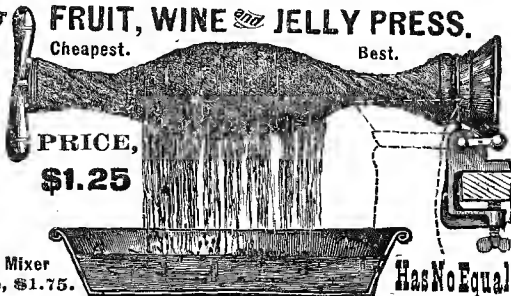


FRUIT, WINE ^{and} JELLY PRESS.

Cheapest.

Best.

PRICE,
\$1.25



Has No Equal

TO THE TRADE.
These Prices are Retail.

PRICE, 60c.



A Perfect Scale.
A Perfect Pt. and Qt.
Measure and Dipper

Those selling our goods are meeting with continually increasing sales. It will pay you to add our goods to your stock. Now is the time to make money handling them. Don't wait until they are in every store. Write for discount and let us have small sample order.

GLOBE TOASTER.

GLOBE MAN'FG CO PHILA. PA.

PAT. AP'D FOR.



This Toaster is the best selling article of the kind in the market, purely on account of its merits. It is the only one that will make toast over a closed or smokey or wood fire and not interfere with draft of ovens. Our Ice Crusher and Fruit Press will be much improved this season, they are the best and cheapest made. They had a large sale last season; with our new and improved patterns they will be very superior.

KEYSTONE SCREW WORKS,

17th and VENANGO STREETS,

PHILADELPHIA.

LIST OF APRIL 1ST, 1885.

FLAT HEAD IRON,	.	.	.	per cent. Discount.
ROUND HEAD IRON,	.	.	.	" "
FLAT HEAD BRASS,	.	.	.	" "
ROUND HEAD BRASS,	.	.	.	" "

For FLAT HEAD BLUED, $2\frac{1}{2}$ per cent. will be added to net amount of invoice.

$2\frac{1}{2}$ per cent. off for bulk.

Rivets in papers of 1,000 each, per cent. Discount.

Same Rivets in bulk, " "

Terms, 30 days.

No prices guaranteed.

Soliciting your favors which shall have our best attention

I am,

Yours Respectfully,

J. BILLERBECK.

BLACK AND TINNED IRON RIVETS.

IN PAPERS OF 1,000 EACH.

PRICE PER M.

		BLACK.	TINNED.		BLACK.	TINNED.
8	oz.	20	24	$3\frac{1}{2}$ lbs.	58	80
10	"	22	25	4 "	64	88
12	"	24	28	5 "	75	1 05
14	"	26	30	6 "	90	1 26
1	lb.	27	33	7 "	1 05	1 50
$1\frac{1}{4}$	"	29	37	8 "	1 20	1 70
$1\frac{1}{2}$	"	32	41	9 "	1 27	1 80
$1\frac{3}{4}$	"	36	47	10 "	1 40	2 00
2	lbs.	40	52	12 "	1 70	2 40
$2\frac{1}{2}$	"	47	63	14 "	1 90	2 75
3	"	53	72	16 "	2 20	3 10

J. BILLERBECK, KEYSTONE SCREW WORKS,

17TH AND VENANGO STREETS,
PHILADELPHIA, PA.

IRON SCREWS.

1 ³ / ₄ Inch.		2 Inch.	
No. 3 @ \$	48	No. 7 @ \$	99
4 " "	49	8 " "	1 01
5 " "	49	9 " "	1 04
6 " "	49	10 " "	1 08
		11 " "	1 18
		12 " "	1 30
		13 " "	1 43
		14 " "	1 55
		15 " "	1 68
		16 " "	1 83
		17 " "	1 97
		18 " "	2 13
1 ¹ / ₂ Inch.		2 ¹ / ₂ Inch.	
No. 3 @ \$	48	No. 9 @ \$	24
4 " "	49	10 " "	27
5 " "	51	11 " "	29
6 " "	51	12 " "	41
7 " "	52	13 " "	56
8 " "	55	14 " "	70
9 " "	55	15 " "	85
10 " "	60	16 " "	100
		17 " "	118
		18 " "	135
3 ³ / ₄ Inch.		2 ³ / ₄ Inch.	
No. 3 @ \$	49	No. 9 @ \$	42
4 " "	49	10 " "	45
5 " "	51	11 " "	49
6 " "	53	12 " "	54
7 " "	55	13 " "	68
8 " "	57	14 " "	84
9 " "	59	15 " "	101
10 " "	68	16 " "	118
11 " "	73	17 " "	136
12 " "	79	18 " "	156
13 " "	84		177
			200
1 ¹ / ₄ Inch.		3 Inch.	
No. 4 @ \$	51	No. 12 @ \$	04
5 " "	51	13 " "	08
6 " "	55	14 " "	12
7 " "	57	15 " "	23
8 " "	57	16 " "	26
9 " "	60	17 " "	27
10 " "	70	18 " "	32
11 " "	77		
12 " "	82		
13 " "	88		
14 " "	94		
1 Inch.			
No. 5 @ \$	60		
6 " "	64		
7 " "	66		
8 " "	69		

BRASS SCREWS.

1 ³ / ₄ Inch.		2 Inch.	
No. 3 @ \$	87	No. 9 @ \$	85
4 " "	93	10 " "	89
5 " "	1 01	11 " "	55
6 " "	1 07	12 " "	62
		13 " "	67
		14 " "	71
		15 " "	87
		16 " "	97
		17 " "	102
		18 " "	154
1 ¹ / ₂ Inch.		2 ¹ / ₂ Inch.	
No. 3 @ \$	92	No. 12 @ \$	95
4 " "	1 01	13 " "	78
5 " "	1 07	14 " "	87
6 " "	1 19	15 " "	93
7 " "	1 29	16 " "	101
8 " "	1 47	17 " "	119
		18 " "	180
1 ¹ / ₄ Inch.		2 ³ / ₄ Inch.	
No. 5 @ \$	13	No. 12 @ \$	44
6 " "	2 16	13 " "	48
7 " "	2 21	14 " "	53
8 " "	2 60	15 " "	56
9 " "	2 95	16 " "	67
10 " "	3 20	17 " "	77
11 " "	3 78	18 " "	88
12 " "	4 24		
13 " "	4 74		
14 " "	5 26		
15 " "	5 82		
16 " "	6 43		
17 " "	7 06		
18 " "	7 74		
1 ¹ / ₂ Inch.		3 Inch.	
No. 6 @ \$	28	No. 14 @ \$	67
7 " "	2 92	15 " "	71
8 " "	2 97	16 " "	75
9 " "	3 39	17 " "	82
10 " "	3 87	18 " "	91
11 " "	4 38		
12 " "	4 92		
13 " "	5 51		
14 " "	6 12		
15 " "	6 78		
16 " "	7 50		
17 " "	8 24		
18 " "	9 01		
1 ³ / ₄ Inch.			
No. 9 @ \$	31		
10 " "	4 37		
11 " "	4 95		
12 " "	5 58		
13 " "	6 25		
14 " "	6 96		
15 " "	7 75		
16 " "	8 52		
17 " "	9 33		
18 " "	10 25		

J. BILLERBECK,
Keystone Screw and Rivet Works,
 Seventeenth and Venango Streets,
 PHILADELPHIA, PA.

WARRANTED RIVETS.

REVISED PRICE-LIST, DECEMBER 10, 1881.

IRON RIVETS IN BULK.

Price per Pound.

SIZE.	Length of Rivet.														
	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{7}{16}$	$\frac{13}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{5}{32}$	$\frac{1}{2}$	$\frac{3}{4}$	
$\frac{7}{16}$, $\frac{3}{8}$, $\frac{11}{32}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$												
$\frac{5}{16}$	12 $\frac{1}{2}$	12 $\frac{1}{2}$	12 $\frac{1}{2}$	13	13										
1	12 $\frac{1}{2}$	12 $\frac{1}{2}$	12 $\frac{1}{2}$	13	13	13									
2	12 $\frac{1}{2}$	12 $\frac{1}{2}$	12 $\frac{1}{2}$	13	13	13	14								
3	13	13	13	14	14	14	15	15	15						
$\frac{1}{4}$	13	13	13	14	14	14	15	15	15	16	16				
4	13	14	14	15	15	15	16	16	16	17	17	18			
5	14	15	16	16	16	17	17	18	18	19	19	20	20	21	
6	14	15	16	16	17	17	18	18	19	20	21	22	22	23	
$\frac{3}{16}$	14	15	16	16	17	17	18	18	19	20	22	23	24	25	
7	15	16	17	17	17	17	18	18	19	20	22	23	24	25	
8	16	16	17	17	18	18	19	19	19	21	22	23	24	25	
9	18	19	19	20	20	21	21	21	21	23	25	27	29	30	
10	19	20	21	22	23	25	27	28	28	30	33	35	37	38	
11	20	22	24	26	27	28	30	31	31	33	37	40	42	45	
12	21	24	26	28	29	30	32	34	35	36	41	45	50	55	
13	25	27	30	33	34	35	37	39	40	41	45	50	55	60	
14	27	30	35	38	40	45	50	52	54	56	58	60	63	65	

~~20~~ Rivets made from wire smaller than No. 14, all lengths, 70 cents per pound.

BLACK AND TINNED IRON RIVETS IN BULK.

Price per Pound.

		BLACK.	TINNED.			BLACK.	TINNED.
8	Oz.	38	45	BARREL RIVETS.	$3\frac{1}{2}$ lbs.	16	22
10	"	34	40		4 "	15	21
12	"	31	37		5 "	14	20
14	"	29	35		6 "	14	20
1	lb.	26	32		7 "	14	20
$1\frac{1}{4}$	"	23	29		8 "	14	20
$1\frac{1}{2}$	"	21	27		9 "	13	19
$1\frac{3}{4}$	"	20	26		10 "	13	19
2	lbs.	19	25		12 "	13	19
$2\frac{1}{2}$	"	18	24		14 "	12 $\frac{1}{2}$	18 $\frac{1}{2}$
3	"	17	23		16 "	12 $\frac{1}{2}$	18 $\frac{1}{2}$

COOPERS' RIVETS.

Price per Pound.

1d	2d	3d	4d	5d	6d
13	13	12 $\frac{1}{2}$	12 $\frac{1}{2}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$

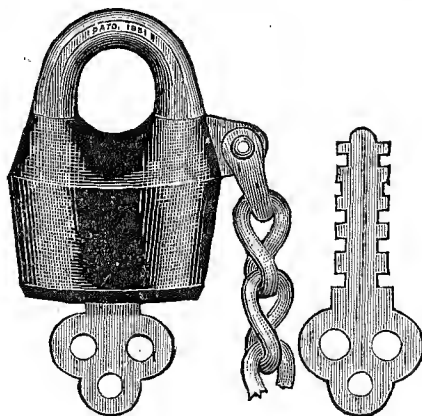
FRAM'S

—PATENT—

Keystone Scandinavian Padlocks.

THE ONLY LOW-PRICED, GOOD SCANDINAVIAN PADLOCK
EVER PRODUCED.

All patents sustained by the U. S. Courts.



Manufacturers of every kind of Scandinavian Padlock known to the trade. Iron and steel keys. With and without chains. Red, Black and Brown finished. We use nothing but Malleable Iron and Steel in their construction. All locks guaranteed.

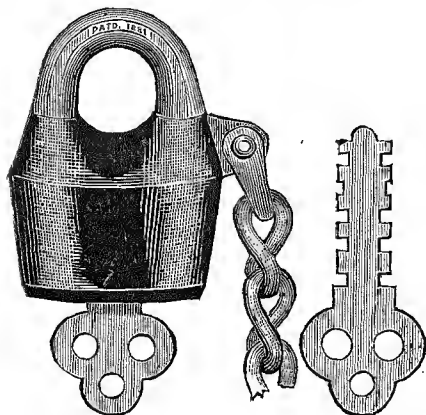
Illustrated Catalogues furnished upon application.

MANUFACTURED BY

KEYSTONE LOCK WORKS, Lancaster, Pa.

Dealers supplied by **BONNEY VISE AND TOOL CO.**

KEYSTONE PATENT TUMBLER, STEEL KEY JAIL PADLOCKS.



ALL STEEL KEYS.

BLACK JAPANNED.

No. 210	\$ 4 50 per dozen
" 211	5 50 "
" 212	6 75 "

With Chains, same size as above.

No. 320	\$ 6 75 per dozen
" 330	7 75 "
" 340	9 00 "

BRIGHT BROWN, JAPANNED, EXTRA HEAVY.

No. 225	\$ 7 50 per dozen
" 226	10 00 "
" 227	13 00 "

With Chains, same as above.

No. 225½	\$ 9 00 per dozen
" 226½	11 50 "
" 227½	14 50 "

Keystone Patent Tumbler, Iron Key, Jail Padlocks.

All Red Japanned, Polished Shackles.

CHEAP GRADES.

Fast Shackle, High List.

No. 119	\$ 8 00 per dozen
" 120	9 00 "
" 130	11 00 "
" 140	13 00 "

BEST QUALITY.

Keystone Patent Tumblers, Loose Shackles, Low List.

No. 9	\$ 2 50 per dozen
" 10	3 00 "
" 11	3 75 "
" 12	4 50 "
" 13	5 50 "
" 14	8 00 "



No. 120.

BEST QUALITY.

Keystone Patent Tumblers, Secured Shackles, Low List.

No. 109	\$ 2 75 per dozen
" 110	3 50 "
" 111	4 30 "
" 112	5 00 "

No. 113	6 00 per dozen
" 114	9 00 "

IRON KEY.

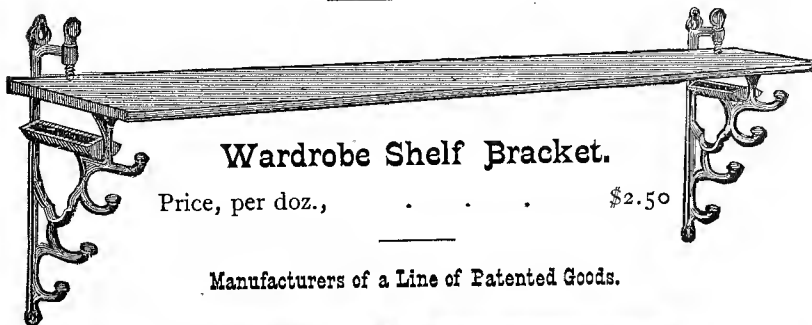
Chain Locks

No. 220. Same size as No. 110,	\$5 75 per dozen
" 230. Same size as No. 111,	6 75 "
" 240. Same size as No. 112,	7 50 "

Philadelphia Novelty Manufacturing Co.

1426 Callowhill Street,

PHILADELPHIA, PA.



Wardrobe Shelf Bracket.

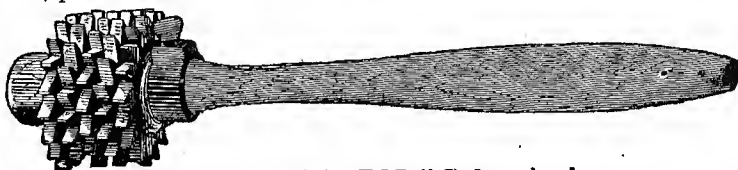
Price, per doz., . . . \$2.50

Manufacturers of a Line of Patented Goods.



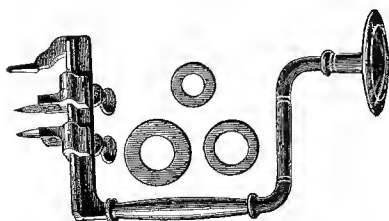
NOVELTY POCKET KNIFE.

Price, per dozen, . . . \$6 00



The "MASTICATOR," Galvanized.

Price per dozen, . . . \$4 00



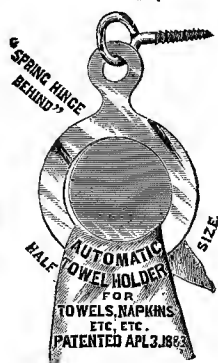
UNIVERSAL WASHER CUTTER.

Price, per doz., . . . \$12 00



MATCH BOX BRACKET.

Price, per doz.
\$3 00



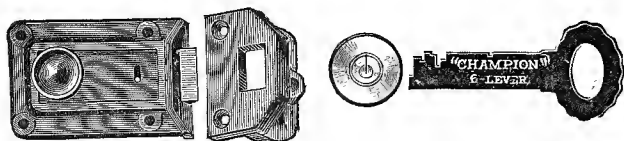
AUTOMATIC TOWEL HOLDER.

Price, per doz.
\$2 50

Paper Fasteners, Bill Files, Pen Racks, Staples, Suspension Rings, Letter Files, Stationers' Hardware, Hair Crimpers, &c., &c., &c.
Catalogue free on application.

MILLER LOCK CO.,

PHILADELPHIA, PA.

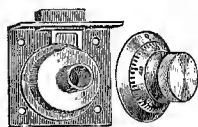


"CHAMPION" RIM LATCH, Adjustable to any Door.

Japanned Iron Case, $3\frac{5}{8}$ x $2\frac{3}{8}$ inches; Bronze Bolt, $1\frac{1}{2}$ x $\frac{1}{2}$ inch.

No.				Per Dozen.
690	For Wood, $1\frac{1}{8}$ to 2 inches thick,	Plated Both Sides,	.	\$30 00
691	" $1\frac{1}{8}$ to 2	" Plated Front,	.	28 00
692	" $1\frac{1}{8}$ to 2	" Bronze Both Sides,	.	25 00
693	" $1\frac{3}{8}$ to 3	" Plated Both Sides,	.	31 00
694	" $1\frac{3}{8}$ to 3	" Plated Front,	.	29 00
695	" $1\frac{3}{8}$ to 3	" Bronze Both Sides,	.	26 00

"CHAMPION" KEYLESS LOCKS.



No. 300.

No.		Per Dozen.
300	Drawer Locks,	\$18 00
310	Closet Locks,	21 00
320	Chest Locks (4 inches), . . .	30 00
325	Chest Locks (Flush Dial), . . .	30 00
340	Desk Locks, for <i>Roll Top Desk</i> ,	30 00

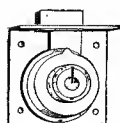


"CHAMPION" KEYLESS CASH or DEED BOXES.

No.	Size inside.	Per Doz.	No.	Size inside.	Per Doz.
93	9 x 6 x $3\frac{3}{4}$,	\$48 40	14	14 x 10 x $6\frac{1}{4}$,	\$61 60
92	$10\frac{1}{2}$ x 7 x $4\frac{1}{8}$,	51 70	16	16 x $11\frac{1}{2}$ x 7	70 40
91	12 x 8 x $5\frac{1}{4}$,	55 00	18	18 x 13 x $8\frac{1}{2}$,	79 20
13	13 x $8\frac{3}{4}$ x 6	59 40			

"CHAMPION" CABINET LOCKS.

2 Keyed. Keys all differ.



No. 642.

No. 642	Drawer Lock,	.	.	.	.	\$ 9 00
No. 631	Closet Lock,	.	.	.	.	11 00
No. 603	Chest Lock,	.	.	.	.	18 00

If made in *Master-Keyed sets*, add \$4.00 per dozen.

MILLER LOCK CO.,

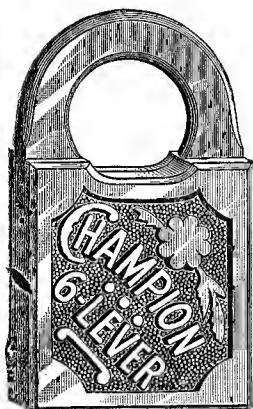
Philadelphia, Pa.

"CHAMPION" PADLOCKS (2 Keyed).



No.	Per Dozen.
1, 2 1/4 inch,	\$12 00
10, 2 1/4 inch, same as No. 1, with Tinned Iron Chain,	14 00
20, 2 1/4 inch, same as No. 1, Nickel-plated,	16 00

Style of
Nos. 1 and 27.



No. 67.



Style of Nos. 85 and 8527.

No.	Per Dozen.
67 Size of cut, weight 3 ounces	\$10 00
670 Same as No. 67, but Nickel-plated	13 00
68 Same as No. 67, but with 16 inch brass chain attached	12 00
680 Same as No. 68, but Nickel-plated	16 00
85 Size of cut, weight, 9 ounces	15 00
86 Same as No. 85, but with Tinned Iron Chain	17 00

MASTER-KEYED PADLOCKS, wherein *any number* may be all *different* as to their special keys, and at the same time a single *Master-Key* will open all that belong to a set. They have *six levers* or "tumblers," and are very secure. Sets of 1/2 dozen, 1 dozen and 2 dozen are kept in stock.

Larger Sets Made to Order.

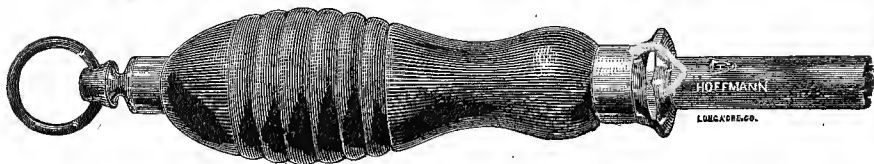
No.	Per Dozen.
27 Size, 2 1/4 inch, two special keys per lock, and one Master-Key to a set, any required number to a set, "6-lever" finish,	\$18 00
29 Master-Keyed Padlocks, with Chain	20 00
8527 Two <i>Special</i> keys per lock, and one <i>Master-key</i> to a set	21 00
8529 Same as above, but with <i>Chain</i> attached	23 00

—PRICE LIST OF—

CELEBRATED



BELL BRAND

BUTCHERS' STEELS.**No. 8.—Pattern of Ordinary Butcher's Steel.**

No.	5.—Table Steel . . .	9 inch . . .	\$ 6 00	per dozen.
"	6.—Kitchen Steel . . .	10 " . . .	8 00	"
"	7.—Butcher's Steel . . .	10 " . . .	9 00	"
"	8.—" " . . .	11 " . . .	10 00	"
"	9.—" " . . .	12 " . . .	12 00	"
"	10.—Slaughterhouse Steel, 10½ " . . .		9 50	"

In offering these Steels to the trade, we would explain why they are superior to any in the market, for the following reasons :

- 1.—The Steels are made from the Best Refined Cast Steel, made especially for this purpose.
 - 2.—They are forged by hand and hammered thoroughly from the shoulder to the point.
 - 3.—They are fluted in a uniform manner with peculiar tools of our own invention, so that a knife will not come in contact with rough and smooth spots.
 - 4.—The Steel will take a keen hold of the hardest knife, without the least tearing, and therefore put a good polish edge on the knife.
 - 5.—Each Steel is warranted to be of Uniform Temper and free from soft spots.
 - 6.—They are handled with a Solid Brass Ferrule, a Soft Metal Finger Guard, and a convenient Double-Acting Spring Swivel.
- They are carefully packed in boxes, half-dozen in each box.

C. & A. HOFFMAN,

Office and Factory,

FRANKFORD, PHILADELPHIA, PA.

The Philadelphia Drop Forge, PHILADELPHIA, PA.

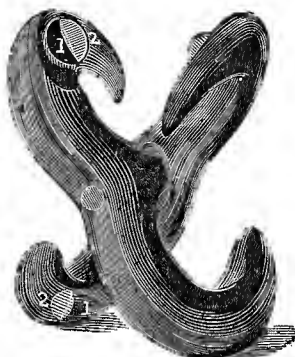
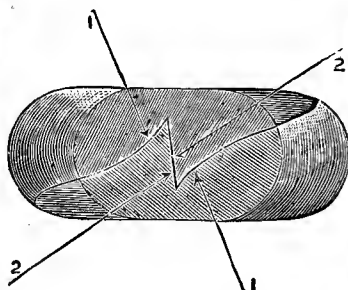
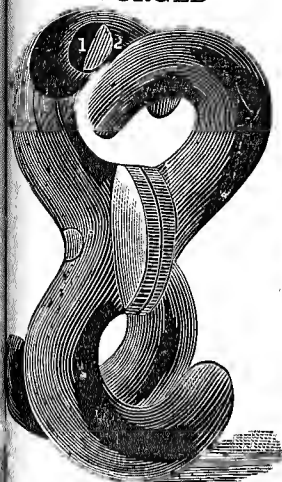
Manufacturers of

BARNES' PATENT

FORGED

STEEL

OPEN



Chain Links

THESE LINKS

are a new and useful device for taking up a chain or re-connecting it if broken. They are strong and compact, and are not liable to get out of order. They are Drop Forged, of the best Wrought Steel, in sizes adapted for use with both light and heavy chains.

DESCRIPTION:

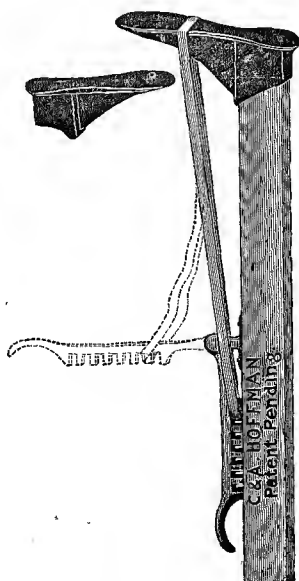
They are composed of two similar sections, centrally pivoted together on the same axis, the said axis and the ends of the link being in the same plane. Each section having on its inner face a lug and a recess, so that when the sections are closed the lugs enter the opposite recesses and abut against each other in such manner as to prevent any lateral displacement of these sections, and receive any lateral strain that may be imparted to the ends of the link. By the provision should there be any lateral strain on the link, the same is transmitted to the lugs, which as will be seen more particularly in the cut, are formed solidly on the inner face of the sections and imbedded therein, and serve to strengthen the link, and relieve the axis or pivot of the sections of the said lateral strain. Being properly proportioned they cannot be broken, and will last a lifetime of daily use.

Patented, U. S. and Canada, August 18th, 1885.

Per Gross.	Per Gross.	Per Gross.	Per Gross.	Per Gross.	Per Gross.
$\frac{1}{4}$ in.	$\frac{5}{16}$ in.	$\frac{3}{8}$ in.	$\frac{7}{8}$ in.	$\frac{1}{2}$ in.	$\frac{9}{16}$ in.
\$13 68	\$16 56	\$20 16	\$24 48	\$28 80	

HOFFMAN'S

PATENT



PENDING.

UNIVERSAL SHOE MENDER.

The Handiest Instrument ever invented for Tapping Boots and Shoes by Pegging or Nailing.

In use it can be turned in any position required, the strap and lever holding the Shoe to the IRON LAST, as solid as an ANVIL. The two Iron Lasts are constructed in such proportion that they will fit any size Boot or Shoe.

For FAMILY Use it is a Money-Saving article, and its construction being so very simple it requires no skill to use it. With the UNIVERSAL SHOE MENDER any MAN, WOMAN, or BOY can mend a Shoe without any instruction and at a very trifling expense. The entire cost CAN BE SAVED in tapping a pair or two of Boots or Shoes.

No HOUSEHOLD where economy is an object, should be without it.

Price per dozen, \$15 00

C. & A. HOFFMAN,

OFFICE & FACTORY.

FRANKFORD, PHILA., PA.

THE "WEED" IMPROVED FAUCET.



NORTH BROTHERS,

Manufacturers,

PHILADELPHIA, PA.

The "Weed Improved" is without doubt the best Faucet in the market for Molasses, Oils, and all liquids in which an Iron Faucet can be used.

In the manufacture of these goods great care has been taken to produce a first-class Faucet. The Faucets are made both with and without the boring attachment. The Bit of the Boring Faucet is of steel, and is a perfect cutting tool.

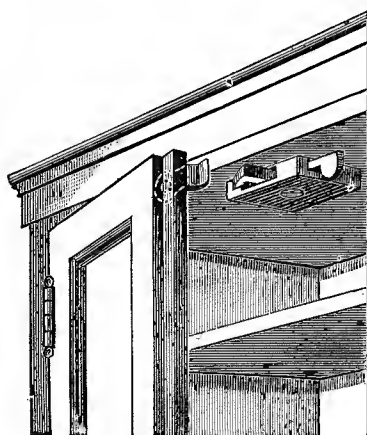
The outlet of these Faucets is the same as in the ordinary Molasses Gate of the same numbers, viz.: 1, 2, 3, 4. To save trouble in ordering, we have numbered the Boring Faucet 11, 12, 13, 14.

PLAIN FAUCET.

No.	Price per Doz.
1	\$ 7 00
2	8 00
3	9 00
4	10 00

BORING FAUCET.

No.	Price per Doz.
11	\$ 7 00
12	8 00
13	9 00
14	10 00



ROSS INSIDE CATCH.

It is with pleasure that we invite your attention to the **Ross Inside Catch**. This Catch is intended for the left hand door of Book Cases, Wardrobes, Cupboards, Sinks, &c., as shown in the illustration.

The idea of the inventor was to dispense with hooks and bolts, and produce a Catch that should be *self-locking*. This Catch being automatic in its action accomplishes the desired result, thus doing away with the annoyance of locking or bolting the door after it is closed. *In applying the Catch the only tool needed is a screw-driver*; its construction being such that all mortising is dispensed with.

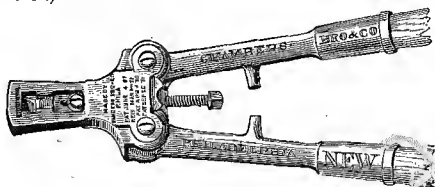
Price, Bronzed, \$7.50 per Gross. One-quarter Gross in a box.
 Price, Bright, \$5.90 per Gross. One-half Gross in a Box.

BOLT AND RIVET CLIPPERS,

MANUFACTURED BY

Chambers, Brother & Co.,

FIFTY-SECOND ST., BELOW LANCASTER AVE., PHILADELPHIA.



This is a little device about the size of a pair of Smith's Tongs (No. 1), for cutting off the ends of bolts, rivets, stay rods, &c., &c., used by Blacksmiths, Carriage and Wagon Builders, Harness-Makers, the Manufacturers of Cars, Portable Engines and Agricultural Implements. It will cut off all the bolts on a carriage in less than one-tenth the time two men can do it in the old way, leaving the end of the bolt so that the nut can, in many cases, be run off and on with the fingers alone, thus proving that the thread is uninjured.

LIST.

- No. 1. For $\frac{3}{8}$ inch bolt or less, for carriage work, harness-makers, etc., \$7 50
 No. 2. For $\frac{1}{2}$ inch bolt or less, for wheelwrights, machinists, founders, etc. 9 00
 No. 3. For $\frac{3}{4}$ inch bolt or less, for car-builders, and heavy work generally 12 00
 "Special No. 4," to cut $\frac{1}{2}$ inch, \$15 00.

R. P. MANLY,
Pres. and Eng.

F. H. TAYLOR,
Sec. and Treas.

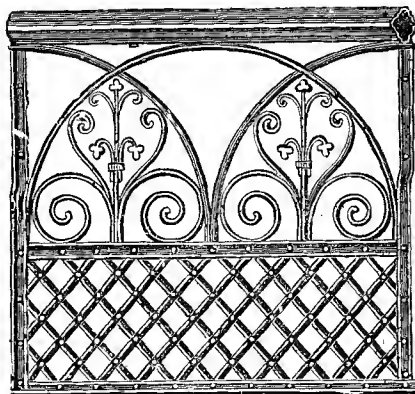
A. L. SMITH,
Asst. Eng.

Manly & Cooper Manufacturing Co.,

FORTY-SECOND ST. AND ELM AVE.,

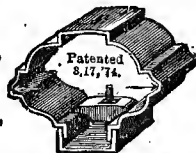
PHILADELPHIA, PA.

New York Office, 55 and 57 Beaver Street.



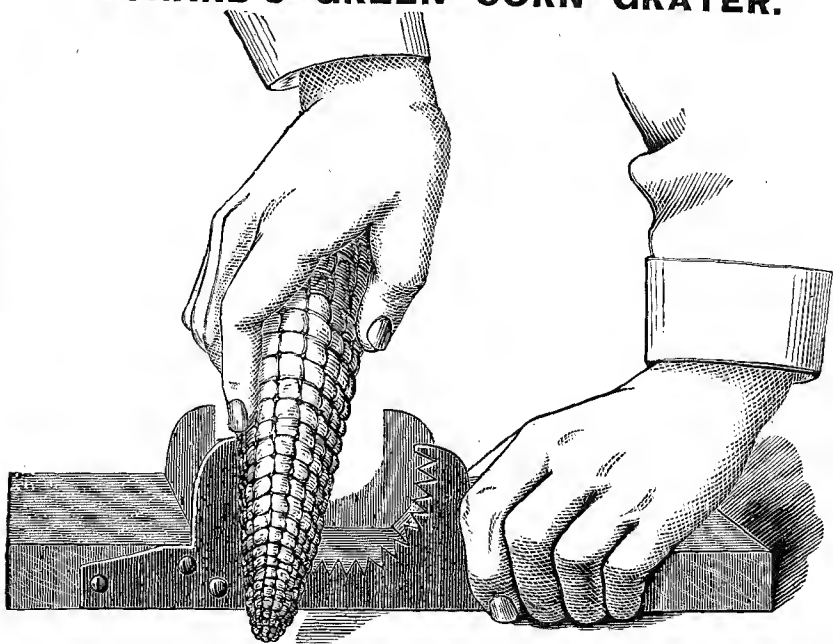
Rolled & Drawn Steel Hand Rails
IN LONG LENGTHS.

Structural
Iron Works,
Railings
& Fences,
All Prices.



GRILLES, LETTERS
FIRE GUARDS,
DOORS, ROOF, JAIL AND BANK
—WORK,—
SHUTTERS, ETC.

RICHARD'S GREEN CORN GRATER.



This new and highly useful invention entirely supersedes all other Graters for the purpose of reducing Green Corn to Pulp.

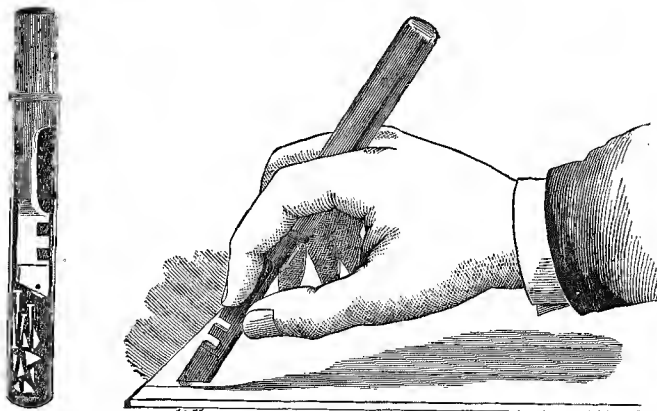
For Making FRITTERS, CAKES, SUCCOTASH, &c.

Leaving the hull of each grain of corn on the cob like feathers upon a brush, which renders the Grater an article of great convenience. It operates so as to preserve all the sweet and nutritious juice of the Corn. It is simple in its construction and not easily put out of order. One will last a life-time with ordinary care.

Price, per dozen,

\$4 00

Vest Pocket Glass Cutter.



Folds up for pocket like a pencil.

Nickel Plate, per gross,

\$15 00

THE PHOENIX BIT-BRACE CO.

IMPROVED BIT-BRACES.

The Best and Cheapest
Bit-Braces made.



No. 500.

Improved Plain Finish.

Cherry or Black Walnut
Head and Handle.

List Price, per Dozen.

8 in. Steel Sweep,	\$13 00
10 " " "	15 00
12 " " "	17 00



No. 100.

Plain Finish.

Black Walnut Head and
Handle.

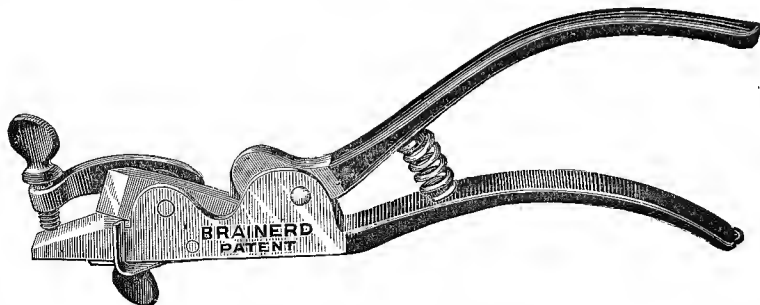
List Price, per Dozen.

8 inch, Steel Sweep,	\$ 9 00
10 " " "	10 00
12 " " "	12 00

BRAINERD'S PATENT SAW SET.

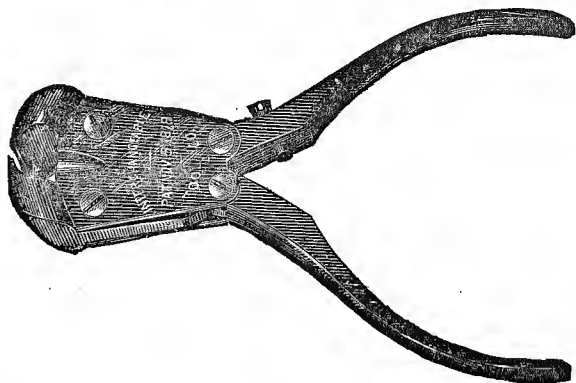
Compound Lever.

THE BEST SAW SET IN THE WORLD.



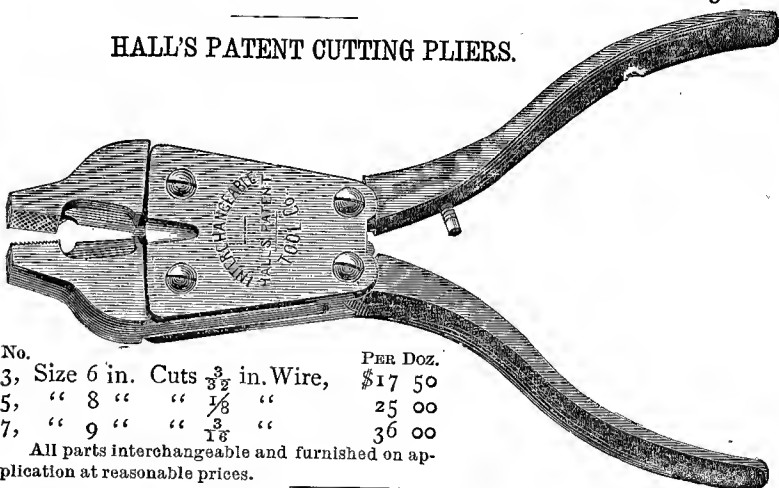
- No. 1 For Hand Saws, Steel Hammer (warranted), per dozen \$12 00
 No. 2 For Cross-cut Saws, " " " 20 00
 Packed in 1/2 Dozen Boxes, 15 Dozen in Case.

Hall's Patent Cutting Nippers.



No.	Size	Cuts	PER DOZ.
1,	4 inch,	$\frac{1}{8}$ inch Wire.	\$12 00
2,	5 "	$\frac{3}{8}$ "	13 50
4,	7 "	$\frac{1}{8}$ "	21 00
6,	8 "	$\frac{3}{16}$ "	30 00

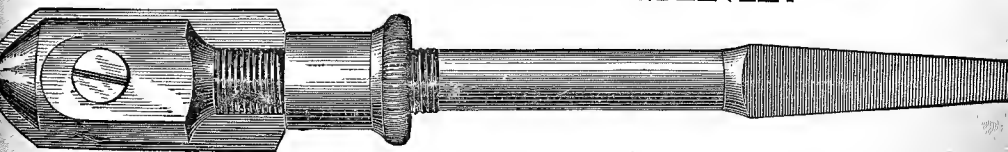
HALL'S PATENT CUTTING PLIERS.



No.	Size	Cuts	PER DOZ.
3,	6 in.	$\frac{3}{8}$ in. Wire,	\$17 50
5,	8 "	$\frac{1}{8}$ "	25 00
7,	9 "	$\frac{3}{16}$ "	36 00

All parts interchangeable and furnished on application at reasonable prices.

ADAMS' COUNTERSINK!



Patented Jan. 23, 1877.

Equally adapted to Iron and Wood. Easily kept in Cutting Order.
Simple and Effective.

Price, per dozen, \$6 00

LEAVITT'S IMPROVED SCREW DRIVER,

With Barbed Tang. Cast Steel Blade.



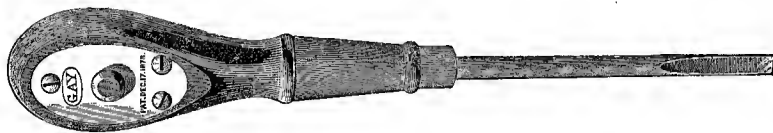
PATENT APPLIED FOR.

A Blade that will not pull out, nor Ferrule get loose or come off. The best goods for the money extant.

Inch,	1½,	2,	3,	4,	5,	6,	8,	10,
Per gross,	\$2 50	3 75	8 33	10 83	13 33	15 83	23 33	26 67

1½ and 2 inch packed in boxes of 2 dozen each. All the other sizes in 1 dozen boxes.

Double Action Ratchet Screw Drivers.



4 inch, per dozen,	.	.	.	.	.	\$ 9 00
5 " "	.	.	.	.	.	10 20
6 " "	.	.	.	.	.	12 00
8 " "	.	.	.	.	.	13 50
10 " "	.	.	.	.	.	15 00
12 " "	.	.	.	.	.	16 50

Davis Steel Screw Driver.



Size,	6 in.	8 in.	10 in.
Price,	\$3 50	\$4 50	\$6 00

HOLLOW HANDLE.

Fray's Patent Awl and Tool Sets.

No. 1.

These Handles and Tools are first-class in every respect. The Handle is Cocobolo wood. The Jaws, Clamping-Nut and Ferule are Nickel-Plated. The Tools consist of a

CHISEL,

TACK PULLER,

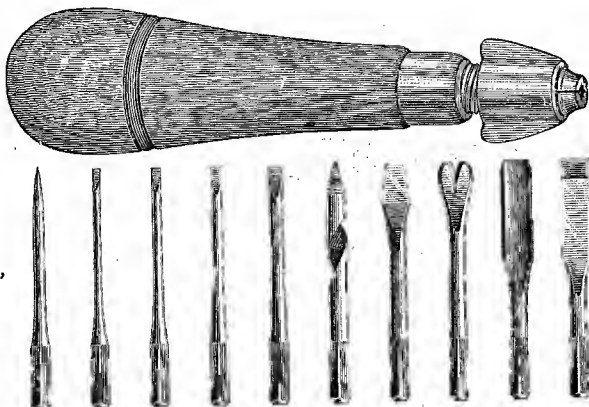
GOUGE,

GIMLET,

SCREW DRIVER,

SCRATCH AWL,

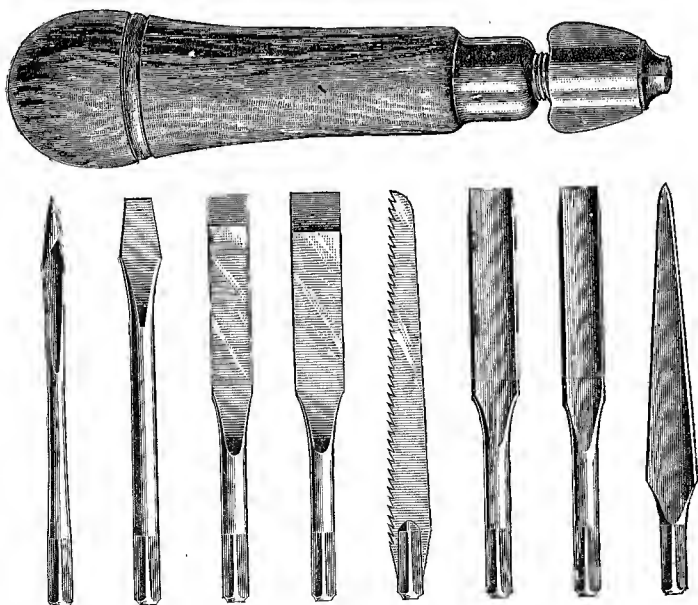
FOUR
BRAD-AWLS,
of different sizes.



The Shanks of the Tools are three-sixteenths inch, and are squared largest at the end to prevent their drawing out of the socket when in use. They are made of the best Cast Steel properly tempered. (Cut is one-half size.)

List, \$12 Per Dozen.

No. 2.

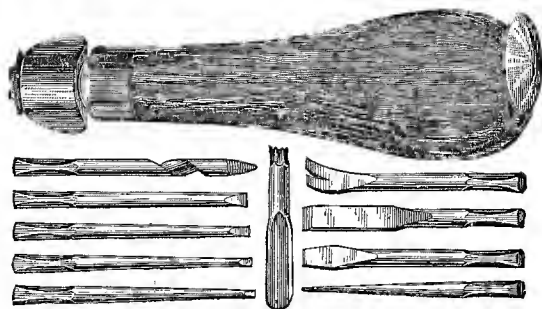


The No. 2 Handle is the same in construction as No. 1, only larger. The tools consist of two sizes each of CHISELS and GOUGES, one SCREW-DRIVER, one taper REAMER, one GIMLET BIT, and one SAW. All are made for use, and are sufficiently large for general work, etc. The saw blades are made for us by one of our best saw manufacturers. The tools are of regular tool-steel, hardened in oil and carefully finished. Cut is one-half size.

List, \$18 Per Dozen.

BUELL'S

NO. 2 GIANT HOLLOW HANDLE.



As represented with patent swing top is of Rosewood, six inches long, and contains ten tools. The Tools are $2\frac{1}{2}$ inches long, with $\frac{1}{16}$ inch Tapering Shank. Being made of the best cast steel tempered in oil, they are superior to anything of the kind ever placed on the market. They include

SCREW DRIVER, GIMLET, SCRATCH AWL,
TACK PULLER, CHISEL, GOUGE,
4 BRAD AWLS.

Price per dozen, \$9 00

BUELL'S

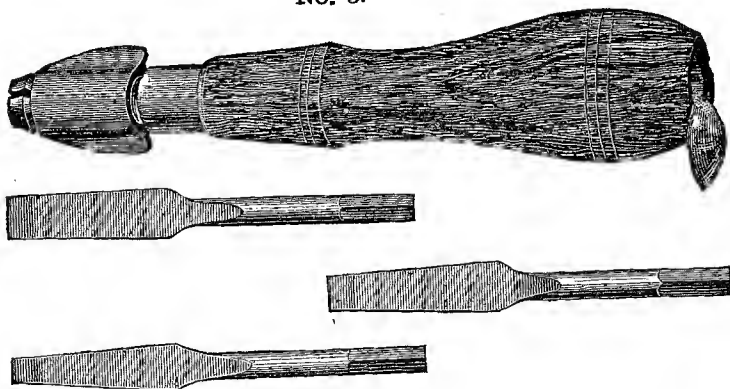
PATENT

Giant Screw Driver

—♦SETS♦—

The Most Perfect Combination Tool Ever Made.

No. 3.



The Handle is Rosewood, $7\frac{1}{2}$ inches long. Patent Swing Top and Jaw Fastening.

The Blades are $4\frac{1}{2}$ inches long, $\frac{5}{16}$ inch shank, and are made from the best quality of tool steel, tempered in oil, and fully warranted.

Each handle contains three Blades, assorted sizes, *which are perfectly adapted for use in ordinary Carpenter's Braces.*

Price per dozen, \$9 00

BIT STOCK DRILLS,

For Metal or Wood.



Diameter.	Price pr doz.	Price Each.	Diameter.	Price pr doz.	Price Each.
2-32	\$1 50	\$0 14	12-32	\$ 7 20	\$0 62
3-32	1 65	16	13-32	8 00	68
4-32	2 10	20	14-32	8 80	75
5-32	2 60	24	15-32	9 60	82
6-32	3 10	29	16-32	10 30	87
7-32	3 60	33	17-32	11 00	92
8-32	4 10	38	9-16		1 20
9-32	4 70	43	5-8		1 35
10-32	5 40	48	11-16		1 50
11-32	6 30	54	3-4		1 65

Our Bit Stock Drills will fit any brace in the market, and will drill steel, iron, or other metal, as well as wood. They are not injured by contact with screws or nails, and will bore any kind of wood without splitting it.

Price, per set, $\frac{3}{32}$ to $\frac{8}{32}$ by 32ds, $\frac{10}{32}$ to $\frac{17}{32}$ by 16th, boxed, . \$2 60

Drills Fitting the Prentice or Worcester Blacksmiths' Drill Press.



Diameter.	Length.	Price Each.	Diameter.	Length.	Price Each.
1-8	5 $\frac{1}{8}$ in.	\$0 45	7-16	7 $\frac{1}{4}$ in.	\$0 90
5-32	5 $\frac{3}{8}$ "	45	15-32	7 $\frac{1}{2}$ "	95
3-16	5 $\frac{5}{8}$ "	50	1-2	7 $\frac{3}{4}$ "	1 00
7-32	5 $\frac{7}{8}$ "	55	17-32	8 "	1 10
1-4	6 $\frac{1}{8}$ "	60	9-16	8 $\frac{1}{4}$ "	1 20
9-32	6 $\frac{1}{4}$ "	65	19-32	8 $\frac{1}{2}$ "	1 30
5-16	6 $\frac{3}{8}$ "	70	5-8	8 $\frac{3}{4}$ "	1 40
11-32	6 $\frac{1}{2}$ "	75	21-32	9 "	1 50
3-8	6 $\frac{3}{4}$ "	80	11-16	9 $\frac{1}{4}$ "	1 60
13-32	7 "	85	3-4	9 $\frac{3}{4}$ "	1 85

The above Drills have shanks 2 $\frac{1}{4}$ inches long and $\frac{1}{4}$ inch diameter.
Diameter of shanks of Drills fitting Prentice Press No. 0, $\frac{1}{4}$ inch; Fitting Press Nos. 1 and 2, $\frac{1}{2}$ inch; Fitting Press No. 3, 41-64 inch.

Drills Fitting Silver and Deming's Blacksmiths' Drill Press.

Nos. 1 and 2, with shanks $\frac{1}{2}$ inch diameter.

Size.	Length.	Price.	Size.	Length.	Price.
1-8	4 $\frac{7}{8}$ in.	\$0 50	7-16	6 in.	\$0 80
3-16	5 $\frac{5}{8}$ "	55	1-2	6 "	85
1-4	6 "	60	9-16	6 "	90
5-16	6 "	70	5-8	6 "	1 05
3-8	6 "	75			

Drills larger than 9-16 inch with shanks $\frac{1}{2}$ inch diameter, and Drills with shanks about 41-64 in. diameter, fitting Silver and Deming's Press Nos. 3 and 4, same price as for Coe's Drill Press. All drills larger than 3-16 in. are 6 in. entire length, with shanks 2 $\frac{1}{4}$ in. long.

C. & A. HOFFMAN'S

ADJUSTABLE SET OF RIFFLER FILES & RASPS.

The Most Suitable Tool Ever Made for Pattern-Makers, Marble-Workers, Die Sinkers, Etc.



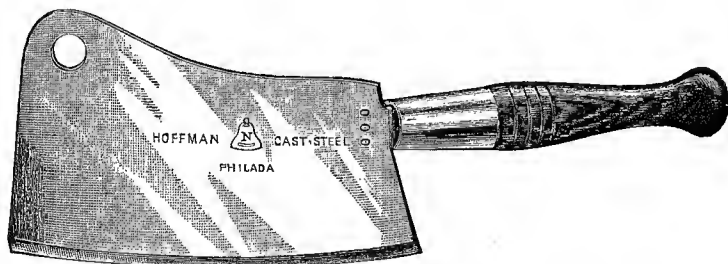
It is also the most economical and perfect tool for Surface Filing, as any shape of file or rasp can be attached to the handle and used the same as a solid file.

- No. 1. Set, put up in boxes, containing holder and one each flat, half round, round, three square, rasp and knife file.
- No. 2. Set put up in boxes, containing holder and one each flat, half round, three square rasps, knife file, round rasp, flat rasp, knife rasp, square hand and surface file.

PRICE PER SET.

No. 1.	Holder and 6 Files	\$1 00
No. 2.	" 12	1 50

OUR SUPERIOR ALL STEEL



HOME CLEAVERS.

Manufactured of the Best Cast Steel, and the Finest Tempered Family or Kitchen Cleaver in the Market.

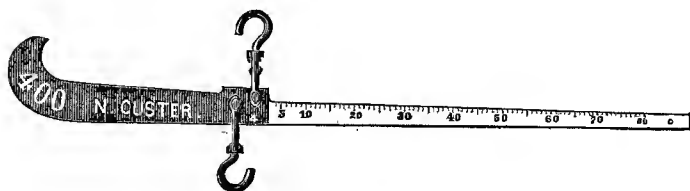
No. 000. $6\frac{1}{2}$ inch per dozen, \$8 50

Established 1838.

THE "CUSTER" SCALE BEAM.

ACCURATE, DURABLE, WARRANTED.

MODERATE IN COST.



These "CUSTER" BEAMS are made of one piece of Steel, have tempered steel bearings, and are in strict conformity with U. S. Standard.

A printed guarantee with each beam.

LIST.

SIZE.	WEIGHS.	PRICE.	SIZE.	WEIGHS.	PRICE.
25	ounces	\$1 90	450	$\frac{1}{4}$ lbs.	\$ 4 05
50	$\frac{1}{4}$ lbs.	2 10	500	$\frac{1}{2}$ lbs.	4 50
75	$\frac{1}{4}$ lbs.	2 20	600	1 lb.	5 40
100	$\frac{1}{4}$ lbs.	2 20	700	1 lb.	6 30
150	$\frac{1}{4}$ lbs.	2 30	800	1 lb.	7 20
200	$\frac{1}{4}$ lbs.	2 40	1000	1 lb.	10 00
250	$\frac{1}{4}$ lbs.	2 50	1200	2 lbs.	15 00
300	$\frac{1}{2}$ lbs.	2 70	1500	2 lbs.	18 00
350	$\frac{1}{2}$ lbs.	3 15	2240	2 lbs.	44 00
400	$\frac{1}{2}$ lbs.	3 60			

Special inducements to new trade.

For Catalogue and Prices, address

CUSTER BEAM WORKS,
Philadelphia, Pa.

EUREKA!!

~OLSON'S PATENT~

SPIRAL SCREW DRIVER.

Push on the end of handle and the Screw goes in.



The most wonderful labor saving Tool ever known. An entire revolution in driving Screws,

A Perfect Novelty.

What the Mechanics say:

"Two-thirds of the time saved. I cannot afford to do with out it. It will drive a screw into wood, soft or hard, in one third of the time of any other mode in use.

Put oil in hole on the side before using.



Novel and Ingenious.

DEVORE'S
INDESTRUCTIBLE
AWL.

SIMPLE, LIGHT, PERFECT
AND CHEAP.

The entire tool, handle included, is made from a single continuous steel rod by coiling its upper portion about itself in a smooth, open coil, thus forming a handle of ordinary shape and size. This coil is rigid in ordinary use, but yields slightly under greater pressure, forming, at the instant when most needed, a cushion for the hand.

Price.....per gross, \$12 00

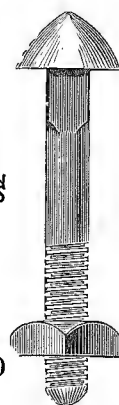
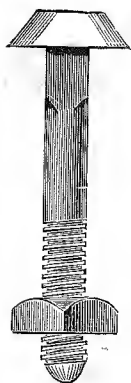
Price..... per dozen, \$30 00

REVISED PRICE LIST

AS ADOPTED BY THE

NORWAY IRON

Carriage and Tire Bolt Manufacturers
OF THE UNITED STATES.



CARRIAGE BOLTS, PRICE LIST per HUNDRED

1-8, 3-16 and 1-4 Dia.	5-16 Dia.	3-8 Dia.	7-16 Dia.	1-2 Dia.
1 inch, \$3 00	1 1/2 inch, \$4 00	2 Inch, \$ 5 00	2 inch, \$ 7 40	2 Inch \$ 9 00
1 1/4 " 3 10	1 3/4 " 4 00	2 1/4 " 5 20	2 1/4 " 7 60	2 1/2 " 9 50
1 1/2 " 3 20	2 " 4 10	2 1/2 " 5 40	2 1/2 " 7 80	3 " 10 00
1 3/4 " 3 30	2 1/4 " 4 20	2 3/4 " 5 60	2 3/4 " 8 00	3 1/2 " 10 50
2 " 3 40	2 1/2 " 4 40	3 " 5 80	3 " 8 20	4 " 11 00
2 1/4 " 3 50	2 3/4 " 4 50	3 1/4 " 6 00	3 1/4 " 8 60	4 1/2 " 11 50
2 1/2 " 3 60	3 " 4 70	3 1/2 " 6 20	4 " 9 00	5 " 12 00
2 3/4 " 3 70	3 1/4 " 4 90	3 3/4 " 6 40	4 1/2 " 9 40	5 1/2 " 12 50
3 " 3 80	3 1/2 " 5 00	4 " 6 60	5 " 9 80	6 " 13 00
3 1/4 " 3 90	3 3/4 " 5 20	4 1/2 " 7 00	5 1/2 " 10 20	6 1/2 " 13 50
3 1/2 " 4 00	4 " 5 30	5 " 7 40	6 " 10 60	7 " 14 00
3 3/4 " 4 10	4 1/2 " 5 70	5 1/2 " 7 80	6 1/2 " 11 00	7 1/2 " 14 50
4 " 4 20	5 " 6 00	6 " 8 20	7 " 11 40	8 " 15 00
4 1/4 " 4 35	5 1/2 " 6 30	6 1/2 " 8 60	7 1/2 " 11 80	8 1/2 " 15 50
4 1/2 " 4 50	6 " 6 60	7 " 9 00	8 " 12 20	9 " 16 00
5 " 4 80	6 1/2 " 7 00	7 1/2 " 9 40	8 1/2 " 12 60	9 1/2 " 16 50
5 1/2 " 5 10	7 " 7 30	8 " 9 80	9 " 13 00	10 " 17 00
6 " 5 40	7 1/2 " 7 60	8 1/2 " 10 20	9 1/2 " 13 40	10 1/2 " 17 50
6 1/2 " 5 70	8 " 7 90	9 " 10 60	10 " 13 80	11 " 18 00
7 " 6 00	8 1/2 " 8 20	9 1/2 " 11 00	11 " 14 60	12 " 19 00
7 1/2 " 6 30	9 " 8 50	10 " 11 40	12 " 15 40	14 " 21 00

UNION EAGLE CARRIAGE AND TIRE BOLTS

Manufactured By

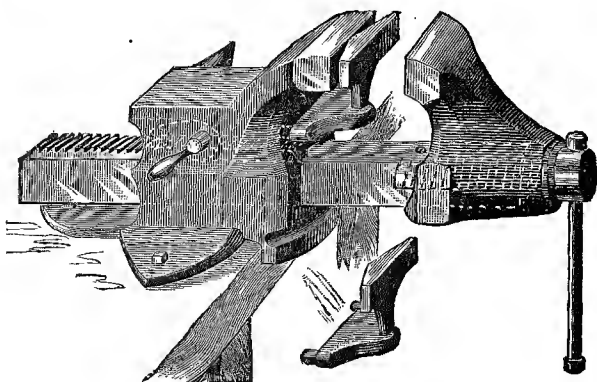
A. & M. HAYDON,

22d St., above Vine,

PHILADELPHIA, PA.

BONNEY'S NEW PATENT Rapid Transit Vise.

THIS CUT SHOWS THE STATIONARY BOTTOM VISE.



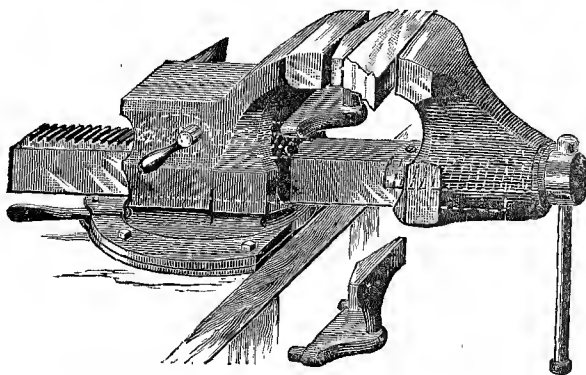
We feel warranted in making the assertion that this is a better Vise than any now in the market. It is less complicated than any other Rapid Transit Vise. It is extra strong and durable. The sliding bar is of cold rolled steel and heavy. The screw is of steel and extra heavy, also the rack and pawl. The bearings inside the jaws fit perfectly the whole length on the slide (instead of a small portion at either end, like other makes) and are hardened. The jaws are of best cast steel and are interchangeable. It can be opened or closed by a simple pull or push of the hand, then tightened by a slight turn of the screw. There is absolutely nothing about it liable to get out of order more than any ordinary Vise.

Bonney Rapid Transit Vise Co.
3130 Chestnut St.,

PHILADELPHIA, PA.

PRICE LIST.

BONNEY'S NEW PATENT Rapid Transit Vise.



THIS CUT SHOWS SWIVEL BOTTOM VISE.

MACHINIST'S VISE.

No.						EACH.
130	3 $\frac{5}{8}$ inch Jaws,	Swivel Bottom	without	Swivel Jaw,	\$	9 50
132	"	"	with	"		10 50
135	"	Stationary	without	"		7 75
137	"	"	with	"		8 75
150	4 $\frac{1}{4}$ inch Jaws,	Swivel	without	"		12 00
152	"	"	with	"		13 00
155	"	Stationary	without	"		10 00
157	"	"	with	"		11 00
160	5 $\frac{1}{4}$ inch Jaws,	Swivel	without	"		20 00
162	"	"	with	"		21 50
165	"	Stationary	without	"		16 00
167	"	"	with	"		17 50

COACH-MAKER'S VISE.

200	4 $\frac{1}{8}$ inch Jaws,	Swivel Bottom	with	Swivel Jaw,	\$	12 50
205	"	Stationary	with	"		11 00
210	4 $\frac{5}{8}$ inch Jaws,	Swivel	with	"		14 00
215	"	Stationary	with	"		12 50

JEWELER'S OR AMATEUR VISE.

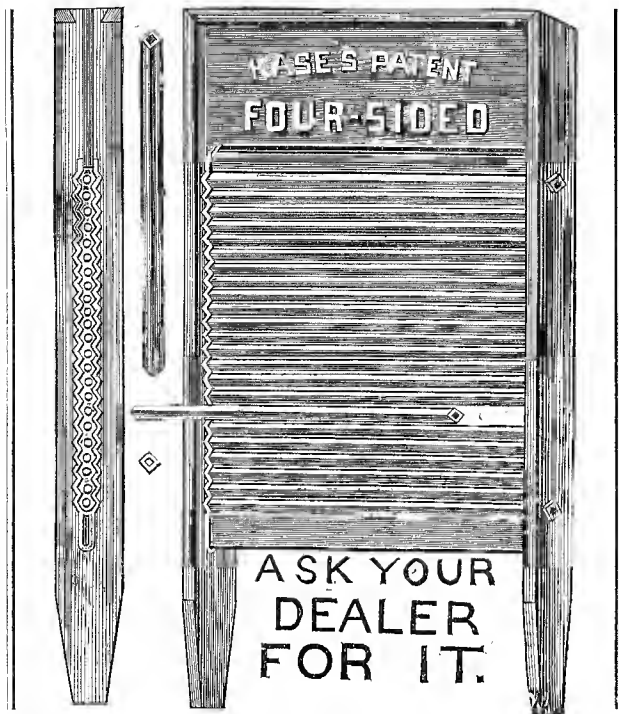
120	2 $\frac{1}{4}$ inch Jaws,	Swivel Bottom	without	Swivel Jaw,	\$	5 00
125	"	"	with	"		5 50

4 Sided Wash Board

Patented Oct. 3d, 1882.

PERFECTION!

UNEQUALLED!



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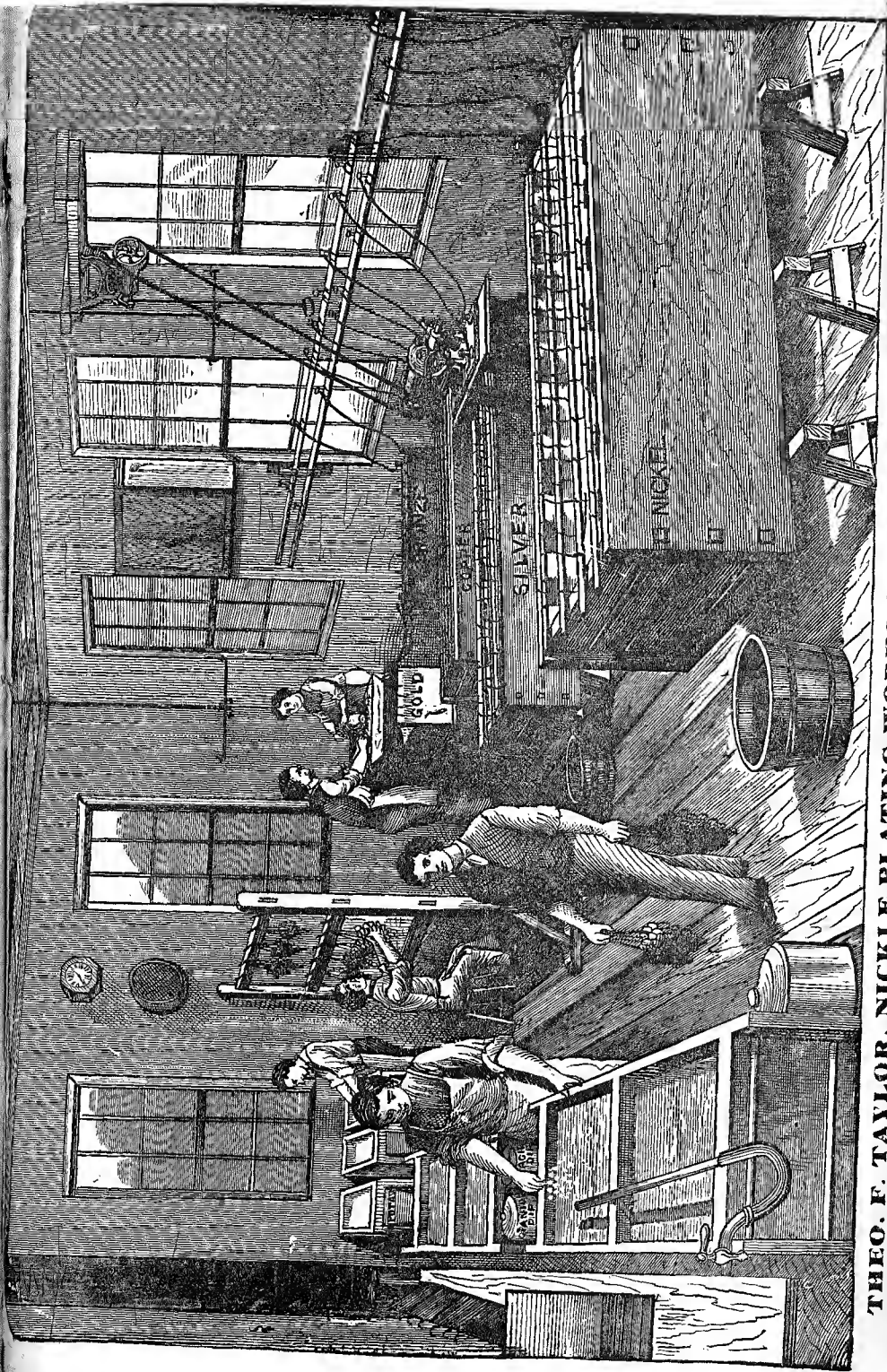
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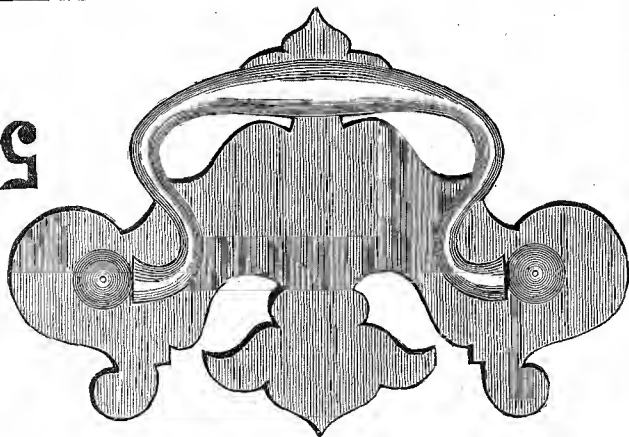
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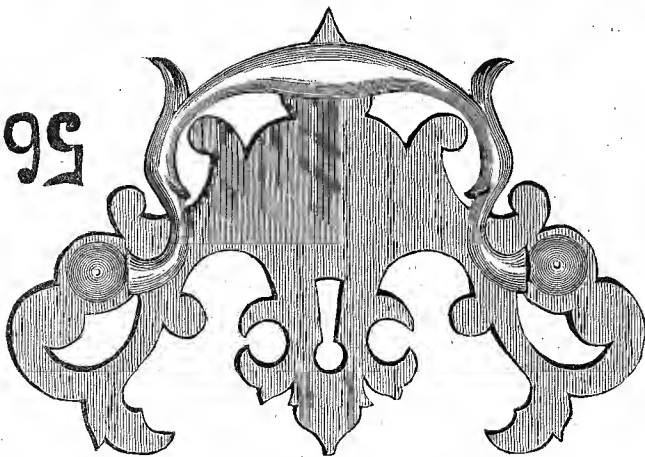


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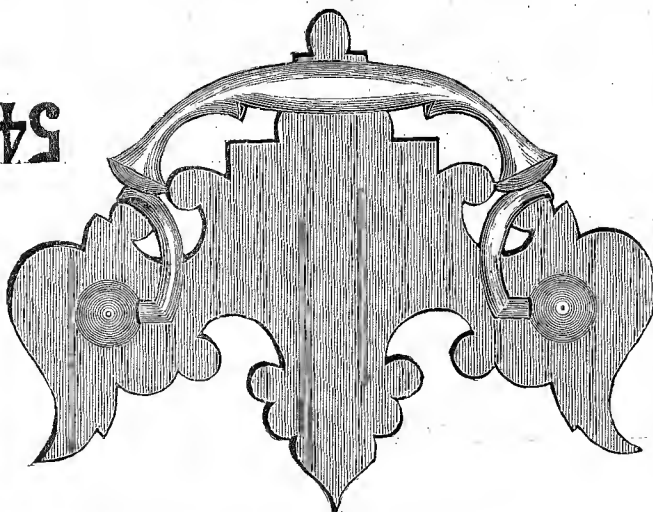
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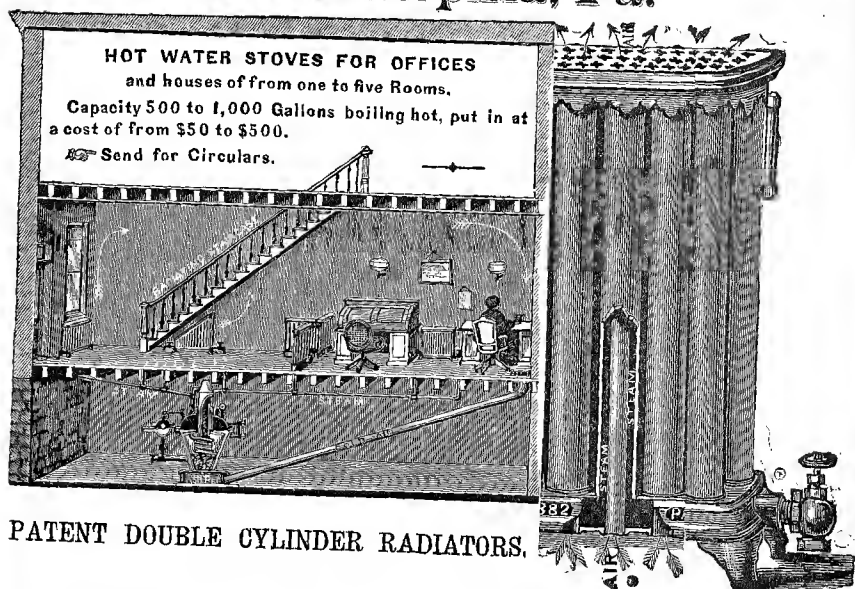
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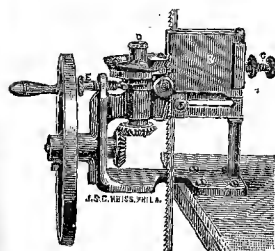
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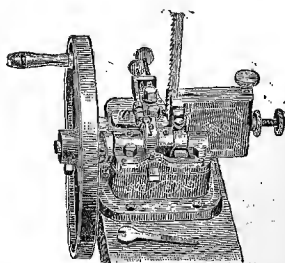
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NOTICE.
IN CONTINUING the address of E. C. TAINTER, successor to J. A. FAY & Co. Worcester, Mass., I hope to answer questions which may be asked concerning the history of the firm which Mr. Fay was so able and ambitious to establish and make useful. For this purpose I wish to collect information in regard to Jacob Amber Fay as a schoolboy at Marlboro, Mass., and a mechanic at North Lancaster, Mass., and South Keene, N. H. These facts will aid in making up a mechanical and business narrative now being prepared for publication. This notice is also addressed to mechanics and business men who may have known him when introducing his Mortising and Planing Machines previous to 1848 and exhibitors at the World's Fair, London, 1851; and any who afterwards met him on his trips south. He died at Staunton, Va., 1853.

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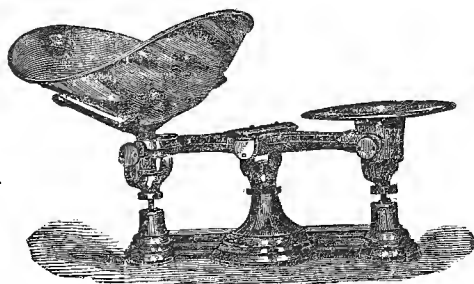
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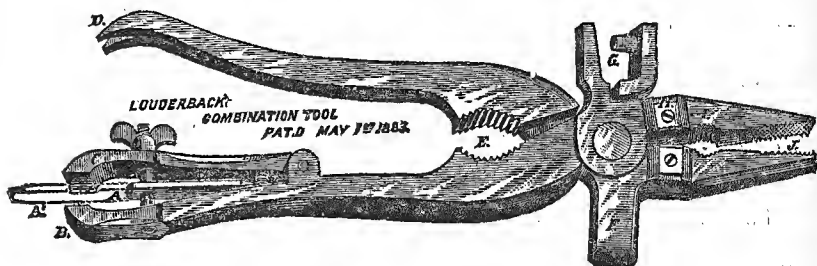
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